



The Lowest Vf Rectifier in the World

SCHOTTKY
SCHOTTKY BRIDGE
RECTIFIER DIODE
BRIDGE RECTIFIER
SWITCHING DIODE
ZENER DIODE
TRANSISTOR
TVS

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TCDD64CAH.....	59	UGP20DH.....	42	UGZ20JCTH.....	47	Z2PK206H.....	01	Z5TPK1545UH.....	03
TCDD7.0AH.....	59	UGP20G.....	41	UGZ26DF.....	44	Z2PK210H.....	01	Z5TPK1545ULH.....	03
TCDD7.0CAH.....	59	UGP20GH.....	42	UGZ26DFH.....	44	Z2PK210LH.....	01	Z5TPK2050UH.....	04
TCDD7.5AH.....	59	UGP20J.....	41	UGZ26DT.....	44	Z2PK215H.....	01	Z5TPK2050ULH.....	04
TCDD7.5CAH.....	59	UGP20JH.....	42	UGZ26DTH.....	44	Z2PK220H.....	01	Z5TPK30100H.....	04
TCDD70AH.....	59	UGP20K.....	41	UGZ26GF.....	44	Z2PK304H.....	01	Z5TPK3050PH.....	04
TCDD70CAH.....	59	UGP20KH.....	42	UGZ26GFH.....	44	Z2PK304RH.....	01	Z5TPK3050UH.....	04
TCDD75AH.....	59	UGP30D.....	42	UGZ26GT.....	44	Z2PK306H.....	01	Z6PK30100H.....	04
TCDD75CAH.....	59	UGP30DH.....	42	UGZ26GTH.....	44	Z2PK310H.....	01		
TCDD78AH.....	59	UGP30G.....	42	UGZ26JF.....	44	Z3PK10100DH.....	03		
TCDD78CAH.....	59	UGP30GH.....	42	UGZ26JFH.....	44	Z3PK10100H.....	03		
TCDD8.0AH.....	59	UGP30J.....	42	UGZ26JT.....	44	Z3PK10100UH.....	03		
TCDD8.0CAH.....	59	UGP30JH.....	42	UGZ26JTH.....	44	Z3PK10150DH.....	03		
TCDD8.5AH.....	59	UGP30K.....	42	UGZ28DF.....	45	Z3PK10150H.....	03		
TCDD8.5CAH.....	59	UGP30KH.....	42	UGZ28DFH.....	45	Z3PK10200DH.....	03		
TCDD80AH.....	59	UGP50D.....	43	UGZ28DT.....	44	Z3PK10200H.....	03		
TCDD80CAH.....	59	UGP50DH.....	43	UGZ28DTH.....	44	Z3PK1045DH.....	03		
TCDD85AH.....	59	UGP50G.....	43	UGZ28GF.....	45	Z3PK1045H.....	03		
TCDD85CAH.....	59	UGP50GH.....	43	UGZ28GFH.....	45	Z3PK1045PH.....	03		
TCDD9.0AH.....	59	UGP50J.....	43	UGZ28GT.....	44	Z3PK1045UH.....	03		
TCDD9.0CAH.....	59	UGP50JH.....	43	UGZ28GTH.....	44	Z3PK1045ULH.....	03		
TCDD90AH.....	59	UGZ10DCF.....	46	UGZ28JF.....	45	Z3PK1060DH.....	03		
TCDD90CAH.....	59	UGZ10DCFH.....	46	UGZ28JFH.....	45	Z3PK1060H.....	03		
UG110D.....	40	UGZ10DCT.....	46	UGZ28JT.....	44	Z3PK1060ULH.....	03		
UG110G.....	40	UGZ10DCTH.....	46	UGZ28JTH.....	44	Z3PK12100UH.....	03		
UG110J.....	40	UGZ10DF.....	45	USCD012H.....	09	Z3PK15100UH.....	03		
UG110K.....	40	UGZ10DFH.....	45	USCD014H.....	09	Z3PK1545UH.....	03		
UGC10DH.....	40	UGZ10DT.....	45	USCD022H.....	09	Z3PK1545ULH.....	03		
UGC10GH.....	40	UGZ10DTH.....	45	USCD024H.....	09	Z3PK1550UH.....	03		

QUICK REFERENCE TABLE **SCHOTTKY BARRIER RECTIFIERS**

Halogen-free Patented With Superchip™ Technology

I _O (A)	V _{RM} (V)	SOD-723	0402 RBV SOD-723	0603 USCD SOD-523	0603-D RBU SOD-523	0805 MSCD SOD-323	Z1PAK Z1PK SOD-323	1206-S SSCD SOD-123	1206 SSCD SOD-123	Z2PAK Z2PK SOD-123
0.1	20			USCD012H AUUSCD012H		MSCD012H AUMSCD012H				
	30	RB520G-30GH RB521G-30GH								
	40			USCD014H AUUSCD014H		MSCD014H MSCD014RH AUMSCD014H				
0.2	20			USCD022H AUUSCD022H		MSCD022H				
	30		RBV023H RBV023RH		RBU023H RBU023RH					
	40			USCD024H USCD024RH USCD024TH AUUSCD024H		MSCD024H				
0.3	20			USCD032H AUUSCD032H		MSCD032H				
	40			USCD034H USCD034RH AUUSCD034H		MSCD034H				
	60					MSCD036H				
0.5	20			USCD052H		MSCD052H AUMSCD052H		SSCD052SH	SSCD052H SSCD052TH AUSSCD052H	
	30			USCD053H		MSCD053H MSCD053RH AUMSCD053H	Z1PK053H			
	40			USCD054H AUUSCD054H		MSCD054H AUMSCD054H	Z1PK054H	SSCD054SH	SSCD054H AUSSCD054H	
	60							SSCD056SH	SSCD056H	
1.0	20					MSCD102H MSCD102LH AUMSCD102H	Z1PK102H Z1PK102LH	SSCD102SH SSCD102LSH	SSCD102H SSCD102LH AUSSCD102H	Z2PK102H
	40					MSCD104H MSCD104LH MSCD104RH AUMSCD104H	Z1PK104H Z1PK104LH Z1PK104RH	SSCD104SH SSCD104RSH SSCD104TSH SSCD104LSH	SSCD104H SSCD104RH SSCD104TH SSCD104LH AUSSCD104H	Z2PK104H Z2PK104LH
	60					MSCD106H MSCD106RH AUMSCD106H	Z1PK106H Z1PK106RH	SSCD106SH	SSCD106H AUSSCD106H	Z2PK106H
	100						Z1PK110H	SSCD110SH	SSCD110H AUSSCD110H	Z2PK110H
	150								SSCD115H	Z2PK115H
	200								SSCD120H	Z2PK120H

NOTE: The model name headed with " AU " is complying with AEC-Q101

SOD-723



0402



0603



0603-D



0805



Z1PAK



1206-S



1206



Z2PAK



QUICK REFERENCE TABLE **SCHOTTKY BARRIER RECTIFIERS**

Halogen-free Patented With Superchip™ Technology

I _o (A)	V _{RM} (V)	0805 MSCD SOD-323	Z2PAK Z2PK SOD-123	1206-S SSCD SOD-123	1206 SSCD SOD-123	2010 SCD DO-214AC(SMA)	2114 BSCD DO-214AA(SMB)
1.0	20					SCD5817H SCD12H SCD12LH AUSCD12H	
	30					SCD5818H	
	40					SCD5819H SCD14H SCD14LH SCD14RH AUSCD14H	
	60					SCD16H AUSCD16H SCD16LH	
	100					SCD110H AUSCD110H	
	150					SCD115H	
	200					SCD120H	
2.0	20	MSCD202H AUMSCD202H	Z2PK202H	SSCD202SH	SSCD202H SSCD202LH AUSSCD202H	SCD22H SCD22LH AUSCD22H	BSCD22H
	40	MSCD204H AUMSCD204H	Z2PK204H Z2PK204LH	SSCD204SH SSCD204USH	SSCD204H SSCD204LH AUSSCD204H	SCD24H SCD24DH SCD24LH SCD24UH AUSCD24H	BSCD24H
	45					SCD245UH	
	60		Z2PK206H	SSCD206SH	SSCD206H AUSSCD206H	SCD26H AUSCD26H	BSCD26H
	100		Z2PK210H Z2PK210LH	SSCD210SH	SSCD210H AUSSCD210H	SCD210H AUSCD210H	BSCD210H
	150		Z2PK215H			SCD215H	
	200		Z2PK220H			SCD220H	

Halogen-free Patented With Superchip™ Technology

I _o (A)	V _{RM} (V)	0805 MSCD SOD-323	1206-S SSCD SOD-123	2010 SCD DO-214AC(SMA)	Z2PAK Z2PK SOD-123	Z2APAK Z2APK DO-214AC(SMA)	Z3PAK Z3PK TO-277	2114 BSCD DO-214AA(SMB)	3220 CSCD DO-214AB(SMC)
3.0	20	MSCD302H AUMSCD302H		SCD32H SCD32LH AUSCD32H				BSCD32H	CSCD32H
	30			SCD33PH					
	40	MSCD304H AUMSCD304H	SSCD304SH	SCD34H SCD34DH SCD34MH SCD34LH SCD34TH AUSCD34H	Z2PK304H Z2PK304RH	Z2APK34H	Z3PK340LH	BSCD34H BSCD34LH	CSCD34H
	45			SCD345H SCD345PH SCD345UH					
	60	MSCD306H AUMSCD306H	SSCD306SH	SCD36H SCD36MH SCD36RH AUSCD36H	Z2PK306H	Z2APK36H		BSCD36H	CSCD36H
	100			SCD310H AUSCD310H	Z2PK310H	Z2APK310H		BSCD310H	CSCD310H
	150			SCD315H		Z2APK315H			
	200			SCD320H		Z2APK320H			

NOTE: The model name headed with " AU " is complying with AEC-Q101

0805



1206-S



1206



Z2PAK



2010



Z2APAK



Z3PAK



2114



3220



QUICK REFERENCE TABLE **SCHOTTKY BARRIER RECTIFIERS**

Halogen-free Patented With Superchip™ Technology

I _O (A)	V _{RM} (V)	2010 SCD DO-214AC(SMA)	Z2APAK Z2APK DO-214AC(SMA)	Z3PAK Z3PK TO-277	2114 BSCD DO-214AA(SMB)	3220 CSCD DO-214AB(SMC)	Z5PAK-T Z5TPK DO-214AB(SMC)	Z6PAK Z6PK DPAK(TO-252)
5.0	20					CSCD52H		
	30	SCD53H						
	40	SCD54H	Z2APK54H Z2APK54MH	Z3PK540H Z3PK540TH	BSCD54H BSCD54DH	CSCD54H		
	45	SCD545H SCD545UH		Z3PK545RH Z3PK545TH Z3PK545UH	BSCD545ULH			
	60		Z2APK56H	Z3PK560H	BSCD56H	CSCD56H		
	100		Z2APK510H	Z3PK5100H	BSCD510H	CSCD510H		
	150		Z2APK515H	Z3PK5150H		CSCD515H		
8.0	200		Z2APK520H	Z3PK5200H				
	40				BSCD84H			
	45			Z3PK845H Z3PK845UH				
	60			Z3PK860H Z3PK860ULH				
	100			Z3PK8100H Z3PK8100UH				
	150			Z3PK8150H				
10	200			Z3PK8200H				
	45			Z3PK1045H Z3PK1045DH Z3PK1045PH Z3PK1045UH Z3PK1045ULH			Z5TPK1045UH Z5TPK1045ULH	
	60			Z3PK1060H Z3PK1060DH Z3PK1060ULH				
	100			Z3PK10100H Z3PK10100DH Z3PK10100UH				
	150			Z3PK10150H Z3PK10150DH				
12	200			Z3PK10200H Z3PK10200DH				
	100			Z3PK12100UH				
15	45			Z3PK1545UH Z3PK1545ULH			Z5TPK1545UH Z5TPK1545ULH	
	50			Z3PK1550UH Z3PK1550ULH				
	100			Z3PK15100UH				
20	45			Z3PK2045H Z3PK2045UH				
	50						Z5TPK2050UH Z5TPK2050ULH	
	60			Z3PK2060H				
	100			Z3PK20100H				
	150			Z3PK20150H				
	200			Z3PK20200H				
30	50						Z5TPK3050UH Z5TPK3050PH	
	100						Z5TPK30100H	Z6PK30100H

2010



Z2PAK



Z3PAK



2114



3220



Z5PAK-T



Z6PAK



QUICK REFERENCE TABLE
SCHOTTKY BARRIER RECTIFIERS

I _o (A)	V _{RM} (V)	DO-214AC SMA	DO-214AA SMB	DO-214AB SMC	DO-204AL DO-41	DO-201AD DO-27
1.0	20	SS12 SS12H			1N5817 1N5817H SB120 SB120H	
	30				1N5818 1N5818H	
	40	SS14 SS14H			1N5819 1N5819H SB140 SB140H	
	60	SS16 SS16H			SB160 SB160H	
	100	SS110 SS110H			SB1100 SB1100H	
2.0	20	SS22 SS22H			SB220 SB220H	
	40	SS24 SS24H			SB240 SB240H	
	60	SS26 SS26H			SB260 SB260H	
	100	SS210 SS210H			SB2100 SB2100H	
	150				SB2150 SB2150H	
	200				SB2200 SB2200H	
3.0	20		SS32 SS32H	SC32 SC32H		1N5820 1N5820H SB320 SB320H
	30					1N5821 1N5821H
	40		SS34 SS34H	SC34 SC34H		1N5822 1N5822H SB340 SB340H
	60		SS36 SS36H	SC36 SC36H		SB360 SB360H
	100		SS310 SS310H	SC310 SC310H		SB3100 SB3100H
	150					SB3150 SB3100H
	200					SB3200 SB3200H
5.0	20			SC52 SC52H		SB520 SB520H
	40			SC54 SC54H		SB540 SB540H
	60			SC56 SC56H		SB560 SB560H
	100			SC510 SC510H		SB5100 SB5100H
	150					SB5150 SB5150H
	200					SB5200 SB5200H
8.0	40					SB840 SB840H
	60					SB860 SB860H

DO-214AC(SMA)



DO-214AA(SMB)



DO-214AB(SMC)



DO-204AL(DO-41)



DO-201AD(DO-27)



QUICK REFERENCE TABLE
SCHOTTKY BARRIER RECTIFIERS

I_o (A)	V_{RM} (V)	TO-220AB	ITO-220AB
10	40	SBL1040CTSH	SBL1040CFSH
	45	SBL1045CTSH	SBL1045CFSH
		SBL1045UCTS	SBL1045UCFS
	60	SBL1060CTSH SBL1060UCTS	SBL1060CFSH SBL1060UCFS
	100	MBR10100CTSH TBR10100CTS	MBR10100CFSH TBR10100CFS
	150	MBR10150CTSH	MBR10150CFSH
20	200	MBR10200CTSH	MBR10200CFSH
	40	SBL2040CTSH	SBL2040CFSH
	45	SBL2045CTSH	SBL2045CFSH
		SBL2045UCTS	SBL2045UCFS
	60	SBL2060CTSH SBL2060UCTS	SBL2060CFSH SBL2060UCFS
	100	MBR20100CTSH TBR20100CTS	MBR20100CFSH TBR20100CFS
30	150	MBR20150CTSH	MBR20150CFSH
	200	MBR20200CTSH	MBR20200CFSH
	40	SBL3040CTSH	SBL3040CFSH
	45	SBL3045CTSH	SBL3045CFSH
		SBL3045UCTS SBL3045UDCTS	SBL3045UCFS SBL3045UDCFS
	60	SBL3060CTSH SBL3060UCTS SBL3060UDCTS	SBL3060CFSH SBL3060UCFS SBL3060UDCFS
40	100	MBR30100CTSH TBR30100CTS	MBR30100CFSH TBR30100CFS
	150	MBR30150CTSH	MBR30150CFSH
	200	MBR30200CTSH	MBR30200CFSH
	45	SBL4045UCTS	SBL4045UCFS
	60	SBL4060UCTS	SBL4060UCFS
	100	TBR40100CTS	TBR40100CFS

TO-220AB



ITO-220AB



QUICK REFERENCE TABLE SCHOTTKY BRIDGE RECTIFIERS

Halogen-free Patented With Superchip™ Technology

I_o (A)	V_{RM} (V)	Schottky Bridge MBC
1.0	40	SMBC104H SMBC104LH
	60	SMBC106H
	100	SMBC110H
2.0	40	SMBC204H SMBC204LH
	60	SMBC206H
	100	SMBC210H
3.0	40	SMBC304MH
	60	SMBC306MH

MBC



QUICK REFERENCE TABLE SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

Halogen-free Patented With Superchip™ Technology

I_o (A)	V_{RM} (V)	Ultra Mini Bridge MBCN	Mini Bridge MBC	Mini Bridge MBCR	Mini Bridge Z4PAK	Mini Bridge Z4PAK-D
0.8	600		MBC08JH			
	800		MBC08KH			
	1000	LX08MS	MBC08MH			
1.0	600		MBC10JH	MBCR10JH MBCR10JLH		
	800		MBC10KH	MBCR10KH MBCR10KLH		
	1000	LX10M	MBC10MH	MBCR10MH MBCR10MLH		
2.0	600				Z4GP20JH Z4GP20JLH	
	800				Z4GP20KH Z4GP20KLH	
	1000				Z4GP20MH Z4GP20MLH	
4.0	600					Z4GP40JH Z4GP40JLH
	800					Z4GP40KH Z4GP40KLH
	1000					Z4GP40MH Z4GP40MLH

MBCN



MBC



MBCR



Z4PAK



Top View Bottom View

Z4PAK-D



Top View Bottom View

QUICK REFERENCE TABLE
SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

I_o (A)	V_{RM} (V)	DFM	DFS	GBP	KBL	GBL	GBL-LS	KBJ	GBU	GBU-LC
1.0	200	DF02 DF02H	DF02S DF02SH							
	400	DF04 DF04H	DF04S DF04SH							
	600	DF06 DF06H	DF06S DF06SH							
	800	DF08 DF08H	DF08S DF08SH							
	1000	DF10 DF10H	DF10S DF10SH							
1.5	200	DF1502 DF1502H	DF1502S DF1502SH							
	400	DF1504 DF1504H	DF1504S DF1504SH							
	600	DF1506 DF1506H	DF1506S DF1506SH							
	800	DF1508 DF1508H	DF1508S DF1508SH							
	1000	DF1510 DF1510H	DF1510S DF1510SH							
2.0	200			GBP202 GBP202H						
	400			GBP204 GBP204H						
	600			GBP206 GBP206H						
	800			GBP208 GBP208H						
	1000			GBP210 GBP210H						
4.0	200				KBL02 KBL02H	GBL02 GBL02H	GBL02LS	KBJ4D KBJ4DH	GBU402 GBU402H	GBU402LC
	400				KBL04 KBL04H	GBL04 GBL04H	GBL04LS	KBJ4G KBJ4GH	GBU404 GBU404H	GBU404LC
	600				KBL06 KBL06H	GBL06 GBL06H	GBL06LS	KBJ4J KBJ4JH	GBU406 GBU406H	GBU406LC
	800				KBL08 KBL08H	GBL08 GBL08H	GBL08LS	KBJ4K KBJ4KH	GBU408 GBU408H	GBU408LC
	1000				KBL10 KBL10H	GBL10 GBL10H	GBL10LS	KBJ4M KBJ4MH	GBU410 GBU410H	GBU410LC
6.0	200							KBJ6D KBJ6DH	GBU602 GBU602H	GBU602LC
	400							KBJ6G KBJ6GH	GBU604 GBU604H	GBU604LC
	600							KBJ6J KBJ6JH	GBU606 GBU606H	GBU606LC
	800							KBJ6K KBJ6KH	GBU608 GBU608H	GBU608LC
	1000							KBJ6M KBJ6MH	GBU610 GBU610H	GBU610LC

DFM



DFS



GBP



KBL



GBL



GBL-LS



KBJ



GBU / GBU-LC



QUICK REFERENCE TABLE
SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

I _o (A)	V _{RM} (V)	GBU	GBU-LC	GBJ	GBPC GBPCW
8.0	200	GBU802 GBU802H	GBU802LC	GBJ8D GBJ8DH	
	400	GBU804 GBU804H	GBU804LC	GBJ8G GBJ8GH	
	600	GBU806 GBU806H	GBU806LC	GBJ8J GBJ8JH	
	800	GBU808 GBU808H	GBU808LC	GBJ8K GBJ8KH	
	1000	GBU810 GBU810H	GBU810LC	GBJ8M GBJ8MH	
10	200	GBU1002 GBU1002H	GBU1002LC	GBJ10D GBJ10DH	
	400	GBU1004 GBU1004H	GBU1004LC	GBJ10G GBJ10GH	
	600	GBU1006 GBU1006H	GBU1006LC	GBJ10J GBJ10JH	
	800	GBU1008 GBU1008H	GBU1008LC	GBJ10K GBJ10KH	
	1000	GBU1010 GBU1010H	GBU1010LC	GBJ10M GBJ10MH	
15	200			GBJ15D GBJ15DH	
	400			GBJ15G GBJ15GH	
	600			GBJ15J GBJ15JH	
	800			GBJ15K GBJ15KH	
	1000			GBJ15M GBJ15MH	
20	200			GBJ20D GBJ20DH	
	400			GBJ20G GBJ20GH	
	600			GBJ20J GBJ20JH	
	800			GBJ20K GBJ20KH	
	1000			GBJ20M GBJ20MH	
25	200			GBJ25D GBJ25DH	GBPC2502 GBPC2502W
	400			GBJ25G GBJ25GH	GBPC2504 GBPC2504W
	600			GBJ25J GBJ25JH	GBPC2506 GBPC2506W
	800			GBJ25K GBJ25KH	GBPC2508 GBPC2508W
	1000			GBJ25M GBJ25MH	GBPC2510 GBPC2510W
30	200				GBPC3502 GBPC3502W
	400				GBPC3504 GBPC3504W
	600				GBPC3506 GBPC3506W
	800				GBPC3508 GBPC3508W
	1000				GBPC3510 GBPC3510W

GBU / GBU-LC



GBJ



GBPC



GBPC-W



QUICK REFERENCE TABLE
SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

Patented With Supertex™ Technology

I _O (A)	V _{RM} (V)	T _{RR} (nS)	TO-220AB	ITO-220AB
10	200	50	EGZ10DCT EGZ10DCTH	EGZ10DCF EGZ10DCFH
	400	50	EGZ10GCT EGZ10GCTH	EGZ10GCF EGZ10GCFH
	600	75	EGZ10JCT EGZ10JCTH	EGZ10JCF EGZ10JCFH
12	200	50	EGZ12DCT EGZ12DCTH	EGZ12DCF EGZ12DCFH
	400	50	EGZ12GCT EGZ12GCTH	EGZ12GCF EGZ12GCFH
	600	75	EGZ12JCT EGZ12JCTH	EGZ12JCF EGZ12JCFH
16	200	50	EGZ16DCT EGZ16DCTH	EGZ16DCF EGZ16DCFH
	400	50	EGZ16GCT EGZ16GCTH	EGZ16GCF EGZ16GCFH
	600	75	EGZ16JCT EGZ16JCTH	EGZ16JCF EGZ16JCFH
20	200	50	EGZ20DCT EGZ20DCTH	EGZ20DCF EGZ20DCFH
	400	50	EGZ20GCT EGZ20GCTH	EGZ20GCF EGZ20GCFH
	600	75	EGZ20JCT EGZ20JCTH	EGZ20JCF EGZ20JCFH

TO-220AB



ITO-220AB



QUICK REFERENCE TABLE
SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

Patented With Suprexil™ Technology

I _o (A)	V _{RM} (V)	T _{RR} (nS)	TO-220AC	ITO-220AC	TO-220AB	ITO-220AB
6.0	200	35	UGZ6DT UGZ6DTH	UGZ6DF UGZ6DFH		
	400	35	UGZ6GT UGZ6GTH	UGZ6GF UGZ6GFH		
	600	35	UGZ6JT UGZ6JTH	UGZ6JF UGZ6JFH		
8.0	200	35	UGZ8DT UGZ8DTH	UGZ8DF UGZ8DFH		
	400	35	UGZ8GT UGZ8GTH	UGZ8GF UGZ8GFH		
	600	35	UGZ8JT UGZ8JTH	UGZ8JF UGZ8JFH		
10	200	35	UGZ10DT UGZ10DTH	UGZ10DF UGZ10DFH	UGZ10DCT UGZ10DCTH	UGZ10DCF UGZ10DCFH
	400	35	UGZ10GT UGZ10GTH	UGZ10GF UGZ10GFH	UGZ10GCT UGZ10GCTH	UGZ10GCF UGZ10GCFH
	600	35	UGZ10JT UGZ10JTH	UGZ10JF UGZ10JFH	UGZ10JCT UGZ10JCTH	UGZ10JCF UGZ10JCFH
16	200	35			UGZ16DCT UGZ16DCTH	UGZ16DCF UGZ16DCFH
	400	35			UGZ16GCT UGZ16GCTH	UGZ16GCF UGZ16GCFH
	600	35			UGZ16JCT UGZ16JCTH	UGZ16JCF UGZ16JCFH
20	200	35			UGZ20DCT UGZ20DCTH	UGZ20DCF UGZ20DCFH
	400	35			UGZ20GCT UGZ20GCTH	UGZ20GCF UGZ20GCFH
	600	35			UGZ20JCT UGZ20JCTH	UGZ20JCF UGZ20JCFH

TO-220AC



ITO-220AC



TO-220AB



ITO-220AB



QUICK REFERENCE TABLE
SINTERED GLASS PASSIVATED JUNCTION HYPER FAST RECTIFIERS

I _o (A)	V _{RM} (V)	T _{RR} (nS)	TO-220AC	ITO-220AC
8.0	600	23	SGZ8JT SGZ8JTH	SGZ8JF SGZ8JFH

TO-220AC



ITO-220AC



QUICK REFERENCE TABLE

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

Patented With TM SuperexilTM Technology
Superchip

Io (A)	V _{RM} (V)	1206-S SGC SOD-123	1206 BYD SOD-123	2010 GC DO-214AC/SMA	2114 BGC DO-214AA(SMB)	3220 CGC DO-214AB(SMC)	DO-214AC SMA	DO-214AA SMB	R-1	DO-204AL DO-41	DO-204AC DO-15
1.0	200	SGC10DH SGC10DLH	BYD17ZDH AUBYD17ZDH BYD17ZDLH AUBYD17ZDLH	GC10DH GC10DLH			GF10D GF10DH GF10DL GF10DLH		G110D G110DH G110DL G110DLH	GP10D GP10DH GP10DL GP10DLH	
	400	SGC10GH SGC10GLH	BYD17ZGH AUBYD17ZGH BYD17ZGLH AUBYD17ZGLH	GC10GH GC10GLH			GF10G GF10GH GF10LG GF10LGH		G110G G110GH G110LG G110LGH	GP10G GP10GH GP10LG GP10LGH	
	600	SGC10JH SGC10JLH	BYD17ZJH AUBYD17ZJH BYD17ZJLH AUBYD17ZJLH	GC10JH GC10JLH			GF10J GF10JH GF10JL GF10JLH		G110J G110JH G110JL G110JLH	GP10J GP10JH GP10JL GP10JLH	
	800	SGC10KH SGC10KLH	BYD17ZKH AUBYD17ZKH BYD17ZKLH AUBYD17ZKLH	GC10KH GC10KLH			GF10K GF10KH GF10KL GF10KLH		G110K G110KH G110KL G110KLH	GP10K GP10KH GP10KL GP10KLH	
	1000	SGC10MH SGC10MLH	BYD17ZMH AUBYD17ZMH BYD17ZMLH AUBYD17ZMLH	GC10MH GC10MLH			GF10M GF10MH GF10ML GF10MLH		G110M G110MH G110ML G110MLH	GP10M GP10MH GP10ML GP10MLH	
	1200						GF10Q GF10QH			GP10Q GP10QH	
	1400									GP10V GP10VH	
	1600						GF10Y GF10YH			GP10Y GP10YH	
	2000						GF02-20 GF02-20H			GP02-20 GP02-20H	
2.0	200			GC20DH GC20DLH	BGC20DH BGC20DLH			GF20D GF20DH GF20DL GF20DLH			GP20D GP20DH GP20DL GP20DLH
	400			GC20GH GC20GLH	BGC20GH BGC20GLH			GF20G GF20GH GF20GL GF20GLH			GP20G GP20GH GP20GL GP20GLH
	600			GC20JH GC20JLH	BGC20JH BGC20JLH			GF20J GF20JH GF20JL GF20JLH			GP20J GP20JH GP20JL GP20JLH
	800			GC20KH GC20KLH	BGC20KH BGC20KLH			GF20K GF20KH GF20KL GF20KLH			GP20K GP20KH GP20KL GP20KLH
	1000			GC20MH GC20MLH	BGC20MH BGC20MLH			GF20M GF20MH GF20ML GF20MLH			GP20M GP20MH GP20ML GP20MLH

NOTE: The model name headed with " AU " is complying with AEC-Q101

1206-S



1206



2010



2114



3220



DO-214AC(SMA)



DO-214AA(SMB)



R-1



DO-204AL(DO-41)



DO-204AC(DO-15)



QUICK REFERENCE TABLE **SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS**

Patented With *Superexil™*
Superchip™ Technology

I _o (A)	V _{RM} (V)	2114 BGC DO-214AA(SMB)	3220 CGC DO-214AB(SMC)	DO-214AA SMB	DO-201AD DO-27	P-600	R-6
3.0	200	BGC30DH BGC30DLH	CGC30DH CGC30DLH	GF30D GF30DH GF30DL GF30DLH	GP30D GP30DH GP30DL GP30DLH		
	400	BGC30GH BGC30GLH	CGC30GH CGC30GLH	GF30G GF30GH GF30GL GF30GLH	GP30G GP30GH GP30GL GP30GLH		
	600	BGC30JH BGC30JLH	CGC30JH CGC30JLH	GF30J GF30JH GF30JL GF30JLH	GP30J GP30JH GP30JL GP30JLH		
	800	BGC30KH BGC30KLH	CGC30KH CGC30KLH	GF30K GF30KH GF30KL GF30KLH	GP30K GP30KH GP30KL GP30KLH		
	1000	BGC30MH BGC30MLH	CGC30MH CGC30MLH	GF30M GF30MH GF30ML GF30MLH	GP30M GP30MH GP30ML GP30MLH		
10	400					GP100G	GP100GC

2114



3220



DO-214AA(SMB)



DO-204AC(DO-15)



P-600



R-6



QUICK REFERENCE TABLE **SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS**

Patented With *Superexil™* Technology
Superchip™

I _o (A)	V _{RM} (V)	T _{RR} (nS)	1206-S SRGC SOD-123	1206 BYD SOD-123	2010 RGC DO-214AC/SMA	2114 BRGC DO-214AA/SMB	DO-214AC SMA	DO-214AA SMB	R-1	DO-204AL DO-41	DO-204AC DO-15	DO-201AD DO-27
1.0	200	150	SRGC10DH		RGC10DH		RGF10D RGF10DH		RG110D RG110DH	RGP10D RGP10DH		
		250		BYD37ZDH								
	400	150	SRGC10GH		RGC10GH		RGF10G RGF10GH		RG110G RG110GH	RGP10G RGP10GH		
		250		BYD37ZGH								
	600	150					RGF10JA RGF10JAH			RGP10JA RGP10JAH		
		250	SRGC10JH	BYD37ZJH	RGC10JH		RGF10J RGF10JH		RG110J RG110JH	RGP10J RGP10JH		
	800	300	SRGC10KH	BYD37ZKH	RGC10KH		RGF10KA RGF10KAH			RGP10KA RGP10KAH		
		500					RGF10K RGF10KH		RG110K RG110KH	RGP10K RGP10KH		
	1000	300	SRGC10MH	BYD37ZMH			RGF10MA RGF10MAH			RGP10MA RGP10MAH		
		500			RGC10MH RGC10MLH		RGF10M RGF10MH		RG110M RG110MH	RGP10M RGP10MH		
	1200	300								RGP02-12 RGP02-12H		
	1500	300								RGP02-15 RGP02-15H		
	1800	300								RGP02-18 RGP02-18H		
	2000	300								RGP02-20 RGP02-20H		
2.0	200	150			RGC20DH	BRGC20DH		RGF20D RGF20DH			RGP20D RGP20DH	
	400	150			RGC20GH	BRGC20GH		RGF20G RGF20GH			RGP20G RGP20GH	
	600	150						RGF20JA RGF20JAH			RGP20JA RGP20JAH	
		250			RGC20JH	BRGC20JH		RGF20J RGF20JH			RGP20J RGP20JH	
	800	300			RGC20KH	BRGC20KH		RGF20KA RGF20KAH			RGP20KA RGP20KAH	
		500						RGF20K RGF20KH			RGP20K RGP20KH	
	1000	300						RGF20MA RGF20MAH			RGP20MA RGP20MAH	
		500			RGC20MH	BRGC20MH		RGF20M RGF20MH			RGP20M RGP20MH	
3.0	200	150				BRGC30DH		RGF30D RGF30DH				RGP30D RGP30DH
	400	150				BRGC30GH		RGF30G RGF30GH				RGP30G RGP30GH
	600	150						RGF30JA RGF30JAH				RGP30JA RGP30JAH
		250				BRGC30JH		RGF30J RGF30JH				RGP30J RGP30JH
	800	300				BRGC30KH		RGF30KA RGF30KAH				RGP30KA RGP30KAH
		500						RGF30K RGF30KH				RGP30K RGP30KH
	1000	300						RGF30MA RGF30MAH				RGP30MA RGP30MAH
		500				BRGC30MH		RGF30M RGF30MH				RGP30M RGP30MH

QUICK REFERENCE TABLE **SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS**

Patented With TM SuperexilTM Technology
TM Superchip

I _o (A)	V _{RM} (V)	T _{RR} (nS)	1206-S SEGC SOD-123	1206 BYD SOD-123	2010 EGC DO-214AC/SMA	2114 BEGC DO-214AA/SMB	DO-214AC SMA	DO-214AA SMB	R-1	DO-204AL DO-41	DO-204AC DO-15	DO-201AD DO-27
1.0	200	50	SEGC10DH	BYD57ZDH AUBYD57ZDH	EGC10DH		EGF10D EGF10DH		EG110D EG110DH	EGP10D EGP10DH		
	400	50	SEGC10GH	BYD57ZGH AUBYD57ZGH	EGC10GH		EGF10G EGF10GH		EG110G EG110GH	EGP10G EGP10GH		
	600	50		BYD57ZJH AUBYD57ZJH								
		75	SEGC10JH		EGC10JH		EGF10J EGF10JH		EG110J EG110JH	EGP10J EGP10JH		
	800	75	SEGC10KH	BYD57ZKH AUBYD57ZKH	EGC10KH		EGF10K EGF10KH		EG110K EG110KH	EGP10K EGP10KH		
	1000	75	SEGC10MH	BYD57ZMH AUBYD57ZMH	EGC10MH		EGF10M EGF10MH		EG110M EG110MH	EGP10M EGP10MH		
2.0	200	50			EGC20DH	BEGC20DH		EGF20D EGF20DH			EGP20D EGP20DH	
	400	50			EGC20GH	BEGC20GH		EGF20G EGF20GH			EGP20G EGP20GH	
	600	75			EGC20JH	BEGC20JH		EGF20J EGF20JH			EGP20J EGP20JH	
	800	75			EGC20KH	BEGC20KH		EGF20K EGF20KH			EGP20K EGP20KH	
	1000	75			EGC20MH	BEGC20MH		EGF20M EGF20MH			EGP20M EGP20MH	
3.0	200	50				BEGC30DH		EGF30D EGF30DH				EGP30D EGP30DH
	400	50				BEGC30GH		EGF30G EGF30GH				EGP30G EGP30GH
	600	75				BEGC30JH		EGF30J EGF30JH				EGP30J EGP30JH
	800	75				BEGC30KH		EGF30K EGF30KH				EGP30K EGP30KH
	1000	75				BEGC30MH		EGF30M EGF30MH				EGP30M EGP30MH
5.0	200	50										EGP50D EGP50DH
	400	50										EGP50G EGP50GH

1206-S



1206



2010



2114



DO-214AC(SMA)



DO-214AA(SMB)



R-1



DO-204AL(DO-41)



DO-204AC(DO-15)



DO-201AD(DO-27)



QUICK REFERENCE TABLE **SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS**

Patented With TM SuperexII
TM Superchip Technology

I _O (A)	V _{RM} (V)	T _{RR} (nS)	1206-S SUGC SOD-123	1206 BYD SOD-123	2010 UGC DO-214AC/SMA	2114 BUGC DO-214AA/SMB	DO-214AC SMA	DO-214AA SMB	R-1	DO-204AL DO-41	DO-204AC DO-15	DO-201AD DO-27
0.8	800	35	SUGC08KH									
1.0	200	35	SUGC10DH	BYD127ZH	UGC10DH		UGF10D UGF10DH		UG110D	UGP10D UGP10DH		
		50		BYD77ZDH								
	400	35	SUGC10GH	BYD147ZH	UGC10GH		UGF10G UGF10GH		UG110G	UGP10G UGP10GH		
		50		BYD77ZGH								
	600	35	SUGC10JH AUSUGC10JH	BYD167ZH AUBYD167ZH	UGC10JH		UGF10J UGF10JH		UG110J	UGP10J UGP10JH		
	800	35	SUGC10KH	BYD187ZH	UGC10KH		UGF10K UGF10KH		UG110K	UGP10K UGP10KH		
2.0	200	35			UGC20DH	BUGC20DH		UGF20D UGF20DH			UGP20D UGP20DH	
	400	35			UGC20GH	BUGC20GH		UGF20G UGF20GH			UGP20G UGP20GH	
	600	35			UGC20JH	BUGC20JH		UGF20J UGF20JH			UGP20J UGP20JH	
	800	35			UGC20KH	BUGC20KH		UGF20K UGF20KH			UGP20K UGP20KH	
3.0	200	35				BUGC30DH		UGF30D UGF30DH				UGP30D UGP30DH
	400	35				BUGC30GH		UGF30G UGF30GH				UGP30G UGP30GH
	600	35				BUGC30JH		UGF30J UGF30JH				UGP30J UGP30JH
	800	35				BUGC30KH		UGF30K UGF30KH				UGP30K UGP30KH
4.0	200	50										MUR420 MUR420H
	400	50										MUR460 MUR460H
5.0	200	35										UGP50D UGP50DH
	400	35										UGP50G UGP50GH
	600	35										UGP50J UGP50JH

NOTE: The model name headed with " AU " is complying with AEC-Q101

1206-S



1206



2010



2114



DO-214AC(SMA)



DO-214AA(SMB)



R-1



DO-204AL(DO-41)



DO-204AC(DO-15)



DO-201AD(DO-27)





ZPAK™ HIGH THERMAL PERFORMANCE SCHOTTKY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	



0.5 AMPERE / Z1PAK (Equivalent to SOD-323) / Halogen-free
ZPAK™ (High Thermal Performance Package)



Z1PK053H	30	0.5	5	0.15	0.5	0.50	B3.
Z1PK054H	40	0.5	5	0.15	0.5	0.50	B4.



1.0 AMPERE / Z1PAK (Equivalent to SOD-323) / Halogen-free
ZPAK™ (High Thermal Performance Package)



Z1PK102H	20	1.0	20	0.20	1.0	0.50	A2.
Z1PK102LH	20	1.0	20	1.00	1.0	0.38	A2L.
Z1PK104H	40	1.0	20	0.20	1.0	0.50	A4.
Z1PK104LH	40	1.0	20	1.00	1.0	0.40	A4L.
Z1PK104RH	40	1.0	20	0.05	1.0	0.52	A41.
Z1PK106H	60	1.0	22	0.10	1.0	0.62	A6.
Z1PK106RH	60	1.0	22	0.05	1.0	0.70	A61.
Z1PK110H	100	1.0	15	0.10	1.0	0.82	A10.



1.0 AMPERE / Z2PAK (Equivalent to SOD-123) / Halogen-free
ZPAK™ (High Thermal Performance Package)



Z2PK102H	20	1.0	20	0.20	1.0	0.50	A2.
Z2PK104H	40	1.0	20	0.20	1.0	0.50	A4.
Z2PK104LH	40	1.0	20	1.00	1.0	0.38	A4L.
Z2PK106H	60	1.0	20	0.20	1.0	0.70	A6.
Z2PK110H	100	1.0	20	0.20	1.0	0.85	A10.
Z2PK115H	150	1.0	20	0.05	1.0	0.88	A15.
Z2PK120H	200	1.0	20	0.05	1.0	0.90	A20.



2.0 AMPERE / Z2PAK (Equivalent to SOD-123) / Halogen-free
ZPAK™ (High Thermal Performance Package)



Z2PK202H	20	2.0	40	0.20	2.0	0.50	L2.
Z2PK204H	40	2.0	40	0.20	2.0	0.50	L4.
Z2PK204LH	40	2.0	40	1.00	2.0	0.40	L4L.
Z2PK206H	60	2.0	40	0.20	2.0	0.70	L6.
Z2PK210H	100	2.0	40	0.20	2.0	0.85	L10.
Z2PK210LH	100	2.0	80	0.20	2.0	0.75	L10L.
Z2PK215H	150	2.0	40	0.05	2.0	0.88	L15.
Z2PK220H	200	2.0	40	0.05	2.0	0.90	L20.



3.0 AMPERE / Z2PAK (Equivalent to SOD-123) / Halogen-free
ZPAK™ (High Thermal Performance Package)



Z2PK304H	40	3.0	80	0.20	3.0	0.50	K4.
Z2PK304RH	40	3.0	60	0.15	3.0	0.55	K4R.
Z2PK306H	60	3.0	80	0.20	3.0	0.70	K6.
Z2PK310H	100	3.0	80	0.20	3.0	0.85	K10.

ZPAK™ HIGH THERMAL PERFORMANCE SCHOTTKY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

NEW

3.0 AMPERE / Z2APAK (Equivalent to DO-214AC / SMA) / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z2APK34H	40	3.0	80	0.20	3.0	0.50	Z2A 34.
Z2APK36H	60	3.0	80	0.20	3.0	0.70	Z2A 36.
Z2APK310H	100	3.0	80	0.20	3.0	0.85	Z2A 310.
Z2APK315H	150	3.0	80	0.05	3.0	0.88	Z2A 315.
Z2APK320H	200	3.0	80	0.05	3.0	0.90	Z2A 320.

NEW

3.0 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK340LH	40	3.0	90	1.0	3.0	0.42	Z3PK 340L.
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NEW

5.0 AMPERE / Z2APAK (Equivalent to DO-214AC / SMA) / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z2APK54H	40	5.0	110	0.20	5.0	0.55	Z2A 54.
Z2APK54MH	40	5.0	110	0.10	5.0	0.57	Z2A 54M.
Z2APK56H	60	5.0	110	0.20	5.0	0.70	Z2A 56.
Z2APK510H	100	5.0	110	0.20	5.0	0.85	Z2A 510.
Z2APK515H	150	5.0	110	0.05	5.0	0.88	Z2A 515.
Z2APK520H	200	5.0	110	0.05	5.0	0.90	Z2A 520.

NEW

5.0 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK540H	40	5.0	120	0.10	5.0	0.57	Z3PK 540.
Z3PK540TH	40	5.0	100	0.20	5.0	0.56	Z3PK 540T.
Z3PK545RH	45	5.0	150	0.20	5.0	0.47	Z3PK 545R.
Z3PK545TH	45	5.0	100	0.20	5.0	0.56	Z3PK 545T.
Z3PK545UH	45	5.0	100	0.20	5.0	0.54	Z3PK 545U.
Z3PK560H	60	5.0	120	0.10	5.0	0.70	Z3PK 560.
Z3PK5100H	100	5.0	120	0.10	5.0	0.85	Z3PK 5100.
Z3PK5150H	150	5.0	110	0.05	5.0	0.88	Z3PK 5150.
Z3PK5200H	200	5.0	110	0.05	5.0	0.90	Z3PK 5200.

NEW

8.0 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK845H	45	8.0	180	0.10	8.0	0.58	Z3PK 845.
Z3PK845UH	45	8.0	150	0.20	8.0	0.55	Z3PK 845U.
Z3PK860H	60	8.0	180	0.10	8.0	0.70	Z3PK 860.
Z3PK860ULH	60	8.0	220	0.6	8.0	0.53	Z3PK 860UL.
Z3PK8100H	100	8.0	170	0.10	8.0	0.80	Z3PK 8100.
Z3PK8100UH	100	8.0	150	0.15	8.0	0.69	Z3PK 8100U.
Z3PK8150H	150	8.0	170	0.10	8.0	0.83	Z3PK 8150.
Z3PK8200H	200	8.0	170	0.10	8.0	0.86	Z3PK 8200.

ZPAK™ HIGH THERMAL PERFORMANCE SCHOTTKY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

NEW

10 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK1045H	45	10	180	0.10	10	0.62	Z3PK 1045•
Z3PK1045DH	45	10	300	0.10	10	0.55	Z3PK 1045D•
Z3PK1045PH	45	10	300	0.10	10	0.49	Z3PK 1045P•
Z3PK1045UH	45	10	200	0.35	10	0.46	Z3PK 1045U•
Z3PK1045ULH	45	10	250	0.35	10	0.455	Z3PK 1045UL•
Z3PK1060H	60	10	180	0.10	10	0.75	Z3PK 1060•
Z3PK1060DH	60	10	270	0.10	10	0.65	Z3PK 1060D•
Z3PK1060ULH	60	10	270	0.40	10	0.49	Z3PK 1060UL•
Z3PK10100H	100	10	170	0.10	10	0.82	Z3PK 10100•
Z3PK10100DH	100	10	220	0.10	10	0.78	Z3PK 10100D•
Z3PK10100UH	100	10	180	0.15	10	0.68	Z3PK 10100U•
Z3PK10150H	150	10	170	0.10	10	0.88	Z3PK 10150•
Z3PK10150DH	150	10	250	0.10	10	0.82	Z3PK 10150D•
Z3PK10200H	200	10	170	0.10	10	0.90	Z3PK 10200•
Z3PK10200DH	200	10	250	0.10	10	0.82	Z3PK 10200D•

NEW

10 AMPERE / Z5PAK-T (Equivalent to DO-214AB / SMC) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z5TPK1045UH	45	10	220	0.35	10	0.47	Z5TPK 1045U•
Z5TPK1045ULH	45	10	250	0.35	10	0.45	Z5TPK 1045UL•

NEW

12 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK12100UH	100	12	180	0.15	12	0.71	Z3PK 12100U•
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NEW

15 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK1545UH	45	15	250	0.35	15	0.52	Z3PK 1545U•
Z3PK1545ULH	45	15	250	0.35	15	0.49	Z3PK 1545UL•
Z3PK1550UH	50	15	250	0.40	15	0.52	Z3PK 1550U•
Z3PK1550ULH	50	15	250	0.36	15	0.49	Z3PK 1550UL•
Z3PK15100UH	100	15	250	0.18	15	0.73	Z3PK 15100U•

NEW

15 AMPERE / Z5PAK-T (Equivalent to DO-214AB / SMC) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z5TPK1545UH	45	15	250	0.35	15	0.52	Z5TPK 1545U•
Z5TPK1545ULH	45	15	250	0.35	15	0.49	Z5TPK 1545UL•



ZPAK™ HIGH THERMAL PERFORMANCE SCHOTTKY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	



20 AMPERE / Z3PAK (Equivalent to TO-277) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z3PK2045H	45	20	300	0.10	20	0.64	Z3PK 2045.
Z3PK2045UH	45	20	250	0..35	20	0.54	Z3PK 2045U.
Z3PK2060H	60	20	300	0.10	20	0.72	Z3PK 2060.
Z3PK20100H	100	20	300	0.10	20	0.83	Z3PK 20100.
Z3PK20150H	150	20	280	0.10	20	0.91	Z3PK 20150.
Z3PK20200H	200	20	280	0.10	20	0.93	Z3PK 20200.



20 AMPERE / Z5PAK-T (Equivalent to DO-214AB / SMC) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z5TPK2050UH	50	20	250	0.35	20	0.55	Z5TPK 2050U.
Z5TPK2050ULH	50	20	280	0.50	20	0.53	Z5TPK 2050UL.



30 AMPERE / Z5PAK-T (Equivalent to DO-214AB / SMC) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z5TPK3050UH	50	30	300	0.50	30	0.55	Z5TPK 3050U.
Z5TPK3050PH	50	30	300	0.10	30	0.65	Z5TPK 3050P.
Z5TPK30100H	100	30	350	0.05	30	0.85	Z5TPK 30100.



30 AMPERE / Z6PAK (Equivalent to DPAK / TO-252) / Halogen-free
ZPAK™ (High Thermal Performance Package)



PATENTED

Z6PK30100H *	100	30	350	0.05	30	0.85	Z6PK 30100.
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NOTE : " * " The objective specification for product development, spec is subject to change, please contact ZOWIE for update.



ZPAK™ HIGH THERMAL PERFORMANCE BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	



2.0 AMPERE / Z4PAK / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z4GP20JH	600	2.0	50	5.0	2.0	1.00	Z4GP 20J•
Z4GP20JLH	600	2.0	60	5.0	2.0	0.95	Z4GP 20JL•
Z4GP20KH	800	2.0	50	5.0	2.0	1.00	Z4GP 20K•
Z4GP20KLH	800	2.0	60	5.0	2.0	0.95	Z4GP 20KL•
Z4GP20MH	1000	2.0	50	5.0	2.0	1.00	Z4GP 20M•
Z4GP20MLH	1000	2.0	60	5.0	2.0	0.95	Z4GP 20ML•



4.0 AMPERE / Z4PAK-D / Halogen-free

ZPAK™ (High Thermal Performance Package)



PATENTED

Z4GP40JH	600	4.0	150	5.0	4.0	1.00	Z4GP 40J•
Z4GP40JLH	600	4.0	150	5.0	4.0	0.95	Z4GP 40JL•
Z4GP40KH	800	4.0	150	5.0	4.0	1.00	Z4GP 40K•
Z4GP40KLH	800	4.0	150	5.0	4.0	0.95	Z4GP 40KL•
Z4GP40MH	1000	4.0	150	5.0	4.0	1.00	Z4GP 40M•
Z4GP40MLH	1000	4.0	150	5.0	4.0	0.95	Z4GP 40ML•

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

0.1 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



AUUSCD012H	20	0.1	2.0	0.05	0.1	0.40	.2. .0. .1.
AUUSCD014H	40	0.1	2.0	0.05	0.1	0.40	.2. .0. .1.

0.1 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



AUMSCD012H	20	0.1	2.0	0.03	0.1	0.45	.F. .2. .F.
AUMSCD014H	40	0.1	2.0	0.03	0.1	0.50	.F. .2. .F.

0.2 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



AUUSCD022H	20	0.2	2.0	0.05	0.2	0.45	.2. .0. .0.
AUUSCD024H	40	0.2	2.0	0.05	0.2	0.45	.2. .0. .0.

0.3 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



AUUSCD032H	20	0.3	2.0	0.05	0.3	0.50	.3. .0. .0.
AUUSCD034H	40	0.3	2.0	0.05	0.3	0.50	.3. .0. .0.

0.5 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



AUUSCD054H	40	0.5	5.0	0.05	0.5	0.50	.5. .0. .0.
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0.5 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



AUMSCD052H	20	0.5	5.0	0.10	0.5	0.44	.B. .2. .B.
AUMSCD053H	30	0.5	5.0	0.10	0.5	0.46	.B. .2. .B.
AUMSCD054H	40	0.5	5.0	0.10	0.5	0.48	.B. .2. .B.

0.5 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip



AUUSCD052H	20	0.5	15	0.05	0.5	0.42	.B2. .A.
AUUSCD054H	40	0.5	15	0.05	0.5	0.48	.B4. .A.

1.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



AUMSCD102H	20	1.0	10	0.20	1.0	0.45	.A. .2. .A.
AUMSCD104H	40	1.0	10	0.20	1.0	0.50	.A. .2. .A.
AUMSCD106H	60	1.0	10	0.20	1.0	0.65	.A. .2. .A.

NOTE : Comply with AEC-Q101

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

1.0 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip



AUSSCD102H	20	1.0	20	0.20	1.0	0.50	.A2.
AUSSCD104H	40	1.0	20	0.20	1.0	0.50	.A4.
AUSSCD106H	60	1.0	20	0.20	1.0	0.70	.A6.
AUSSCD110H	100	1.0	20	0.20	1.0	0.85	.A10.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



AUSCD12H	20	1.0	30	0.2	1.0	0.50	SCD .12.
AUSCD14H	40	1.0	30	0.2	1.0	0.50	SCD .14.
AUSCD16H	60	1.0	30	0.2	1.0	0.70	SCD .16.
AUSCD110H	100	1.0	30	0.2	1.0	0.85	SCD .110.

2.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



AUMSCD202H	20	2.0	10	0.05	1.0	0.45	.L. .2.
AUMSCD204H	40	2.0	10	0.05	1.0	0.50	.L. .4.

2.0 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip



AUSSCD202H	20	2.0	40	0.2	2.0	0.50	.L2.
AUSSCD204H	40	2.0	40	0.2	2.0	0.50	.L4.
AUSSCD206H	60	2.0	40	0.2	2.0	0.70	.L6.
AUSSCD210H	100	2.0	40	0.2	2.0	0.85	.L10.

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



AUSCD22H	20	2.0	50	0.2	2.0	0.50	SCD .22.
AUSCD24H	40	2.0	50	0.2	2.0	0.50	SCD .24.
AUSCD26H	60	2.0	50	0.2	2.0	0.70	SCD .26.
AUSCD210H	100	2.0	50	0.2	2.0	0.85	SCD .210.

3.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



AUMSCD302H	20	3.0	10	0.05	1.0	0.45	.K. .2.
AUMSCD304H	40	3.0	10	0.05	1.0	0.50	.K. .4.
AUMSCD306H	60	3.0	10	0.05	1.0	0.65	.K. .6.

3.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



AUSCD32H	20	3.0	80	0.2	3.0	0.50	SCD .32.
AUSCD34H	40	3.0	80	0.2	3.0	0.50	SCD .34.
AUSCD36H	60	3.0	80	0.2	3.0	0.70	SCD .36.
AUSCD310H	100	3.0	80	0.2	3.0	0.85	SCD .310.

NOTE : Comply with AEC-Q101

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free
Superchip Superex II

 **PATENTED**

AUBYD17ZDH	200	1.0	30	1.0	1.0	1.00	¹⁷ .ZD.
AUBYD17ZDLH	200	1.0	40	5.0	1.0	0.93	¹⁷ .ZDL.
AUBYD17ZGH	400	1.0	30	1.0	1.0	1.00	¹⁷ .ZG.
AUBYD17ZGLH	400	1.0	40	5.0	1.0	0.93	¹⁷ .ZGL.
AUBYD17ZJH	600	1.0	30	1.0	1.0	1.00	¹⁷ .ZJ.
AUBYD17ZJLH	600	1.0	40	5.0	1.0	0.93	¹⁷ .ZJL.
AUBYD17ZKH	800	1.0	30	1.0	1.0	1.00	¹⁷ .ZK.
AUBYD17ZKLH	800	1.0	40	5.0	1.0	0.93	¹⁷ .ZKL.
AUBYD17ZMH	1000	1.0	30	1.0	1.0	1.00	¹⁷ .ZM.
AUBYD17ZMLH	1000	1.0	40	5.0	1.0	0.93	¹⁷ .ZML.

NOTE : Comply with AEC-Q101

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free
Superchip Superex II

 **PATENTED**

AUBYD57ZDH	200	1.0	30	5.0	1.0	1.70	50	⁵⁷ .ZD.
AUBYD57ZGH	400	1.0	30	5.0	1.0	1.70	50	⁵⁷ .ZG.
AUBYD57ZJH	600	1.0	30	5.0	1.0	1.70	50	⁵⁷ .ZJ.
AUBYD57ZKH	800	1.0	25	5.0	1.0	1.70	75	⁵⁷ .ZK.
AUBYD57ZMH	1000	1.0	25	5.0	1.0	1.70	75	⁵⁷ .ZM.

NOTE : Comply with AEC-Q101

SINTERED GLASS PASSIVATED JUNCTION ULTRAFast RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free
Superchip Superex II

 **PATENTED**

AUSUGC10JH	600	1.0	15	5.0	1.0	1.70	35	¹⁰ .0J.
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1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free
Superchip Superex II

 **PATENTED**

AUBYD167ZH	600	1.0	25	5.0	1.0	1.70	35	¹⁶⁷ .Z.
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NOTE : Comply with AEC-Q101

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

0.1 AMPERE / SOD-723 / Halogen-free



RB520G-30GH	30	0.10	0.5	0.0005 *	0.01	0.45	E
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NOTE : " * " At 10 V Reverse Voltage.

0.1 AMPERE / SOD-723 / Halogen-free



RB521G-30GH	30	0.10	0.5	0.01 *	0.01	0.35	F
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NOTE : " * " At 10 V Reverse Voltage.

0.1 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



USCD012H	20	0.1	2.0	0.05	0.1	0.40	2F
USCD014H	40	0.1	2.0	0.05	0.1	0.40	4F

0.1 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD012H	20	0.1	2.0	0.03	0.1	0.45	F2
MSCD014H	40	0.1	2.0	0.03	0.1	0.50	F4
MSCD014RH	40	0.1	0.5	0.0005 *	0.001	0.35	F41

NOTE : " * " At 30 V Reverse Voltage.



0.2 AMPERE / 0402 (Equivalent to SOD-723) / Halogen-free Superchip



RBV023H	30	0.2	0.5	0.03 *	0.2	0.50	⬆
RBV023RH	30	0.2	0.5	0.0005 *	0.01	0.35	⬇

NOTE : " * " At 10 V Reverse Voltage.

The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.



0.2 AMPERE / 0603-D (Equivalent to SOD-523) / Halogen-free Superchip



RBU023H	30	0.2	1	0.03 *	0.2	0.50	⬆
RBU023RH	30	0.2	0.5	0.001 *	0.2	0.60	⬇

NOTE : " * " At 10 V Reverse Voltage.

The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

0.2 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



USCD022H	20	0.2	2.0	0.05	0.2	0.45	2F
USCD024H	40	0.2	2.0	0.05	0.2	0.45	4F
USCD024RH	40	0.2	2.0	0.001 *	0.2	0.45	4F
USCD024TH	40	0.2	2.0	0.0005 *	0.2	0.65	4F

NOTE : " * " At 10 V Reverse Voltage.

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

0.2 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD022H	20	0.2	2.0	0.005 *	0.2	0.45	D 2.
MSCD024H	40	0.2	2.0	0.005 *	0.2	0.50	D 4.

NOTE : " * " At 3 V Reverse Voltage.

0.3 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



USCD032H	20	0.3	2.0	0.05	0.3	0.50	2C 4C 4C 1.
USCD034H	40	0.3	2.0	0.05	0.3	0.50	
USCD034RH	40	0.3	2.0	0.001 *	0.001	0.37	

NOTE : " * " At 10 V Reverse Voltage.

0.3 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD032H	20	0.3	2.0	0.05	0.3	0.50	C 2.
MSCD034H	40	0.3	2.0	0.05	0.3	0.50	C 4.
MSCD036H	60	0.3	2.0	0.05	0.3	0.65	C 6.



0.5 AMPERE / 0603 (Equivalent to SOD-523) / Halogen-free Superchip



USCD052H	20	0.5	5.0	0.05	0.5	0.50	2C 3B 4B
USCD053H	30	0.5	5.0	0.05	0.5	0.50	
USCD054H	40	0.5	5.0	0.05	0.5	0.50	

0.5 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD052H	20	0.5	5.0	0.10	0.5	0.44	B 2.
MSCD053H	30	0.5	5.0	0.10	0.5	0.46	B 3.
MSCD053RH	30	0.5	3.0	0.005	0.5	0.50	B 31.
MSCD054H	40	0.5	5.0	0.10	0.5	0.48	B 4.

0.5 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip



SSCD052SH	20	0.5	15	0.05	0.5	0.42	B2S
SSCD054SH	40	0.5	15	0.05	0.5	0.48	B4S
SSCD056SH	60	0.5	15	0.05	0.5	0.55	B6S

0.5 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip



SSCD052H	20	0.5	15	0.05	0.5	0.42	B2.
SSCD052TH	20	0.5	15	0.2	0.5	0.38	B2T
SSCD054H	40	0.5	15	0.05	0.5	0.48	B4.
SSCD056H	60	0.5	15	0.05	0.5	0.55	B6.

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

1.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD102H	20	1.0	10	0.2	1.0	0.45	A.
MSCD102LH	20	1.0	10	1.0	1.0	0.38	2L.
MSCD104H	40	1.0	10	0.2	1.0	0.50	A.
MSCD104LH	40	1.0	10	1.0	1.0	0.38	4L.
MSCD104RH	40	1.0	10	0.05	1.0	0.55	4L.
MSCD106H	60	1.0	10	0.2	1.0	0.65	6.
MSCD106RH	60	1.0	10	0.05	1.0	0.70	6L.

1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip



SSCD102SH	20	1.0	20	0.2	1.0	0.50	A2S.
SSCD102LSH	20	1.0	25	1.0	1.0	0.38	2L.
SSCD104SH	40	1.0	20	0.2	1.0	0.50	A4S.
SSCD104LSH	40	1.0	25	1.0	1.0	0.38	4L.
SSCD104RSH	40	1.0	20	0.05	1.0	0.55	4L.
SSCD104TSH	40	1.0	25	0.2	1.0	0.45	4T.
SSCD106SH	60	1.0	20	0.2	1.0	0.70	A6S.
SSCD110SH	100	1.0	20	0.2	1.0	0.85	A10S.

1.0 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip



SSCD102H	20	1.0	20	0.2	1.0	0.50	A2.
SSCD102LH	20	1.0	25	1.0	1.0	0.38	A2L.
SSCD104H	40	1.0	20	0.2	1.0	0.50	A4.
SSCD104LH	40	1.0	25	1.0	1.0	0.38	A4L.
SSCD104RH	40	1.0	20	0.05	1.0	0.55	A4R.
SSCD104TH	40	1.0	25	0.2	1.0	0.45	A4T.
SSCD106H	60	1.0	20	0.2	1.0	0.70	A6.
SSCD110H	100	1.0	20	0.2	1.0	0.85	A10.
SSCD115H	150	1.0	20	0.05	1.0	0.88	A15.
SSCD120H	200	1.0	20	0.05	1.0	0.90	A20.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



SCD5817H	20	1.0	30	0.5	1.0	0.45	58.
SCD5818H	30	1.0	30	0.5	1.0	0.55	58.
SCD5819H	40	1.0	30	0.5	1.0	0.60	58.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



SCD12H	20	1.0	30	0.2	1.0	0.50	SCD.
SCD12LH	20	1.0	30	1.0	1.0	0.38	12L.
SCD14H	40	1.0	30	0.2	1.0	0.50	SCD.
SCD14LH	40	1.0	30	1.0	1.0	0.38	14L.
SCD14RH	40	1.0	30	0.05	1.0	0.55	SCD.
SCD16H	60	1.0	30	0.2	1.0	0.70	SCD.
SCD16LH	60	1.0	30	0.5	1.0	0.55	16L.
SCD110H	100	1.0	30	0.2	1.0	0.85	SCD.
SCD115H	150	1.0	30	0.05	1.0	0.88	115.
SCD120H	200	1.0	30	0.05	1.0	0.90	SCD.

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

2.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip

 **PATENTED**

MSCD202H	20	2.0	10	0.05	1.0	0.45	L2S
MSCD204H	40	2.0	10	0.05	1.0	0.50	L4S

2.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip

 **PATENTED**

SSCD202SH	20	2.0	40	0.2	2.0	0.50	L2S
SSCD204SH	40	2.0	40	0.2	2.0	0.50	L4S
SSCD204USH	40	2.0	40	0.2	2.0	0.49	L4US
SSCD206SH	60	2.0	40	0.2	2.0	0.70	L6S
SSCD210SH	100	2.0	40	0.2	2.0	0.85	L10S

2.0 AMPERE / 1206 (Equivalent to SOD-123) / Halogen-free Superchip

 **PATENTED**

SSCD202H	20	2.0	40	0.2	2.0	0.50	L2S
SSCD202LH	20	2.0	40	1.0	2.0	0.40	L2LS
SSCD204H	40	2.0	40	0.2	2.0	0.50	L4S
SSCD204LH	40	2.0	40	1.0	2.0	0.40	L4LS
SSCD206H	60	2.0	40	0.2	2.0	0.70	L6S
SSCD210H	100	2.0	40	0.2	2.0	0.85	L10S

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip

 **PATENTED**

SCD22H	20	2.0	50	0.2	2.0	0.50	SCD22S
SCD22LH	20	2.0	50	1.0	2.0	0.40	SCD22LS
SCD24H	40	2.0	50	0.2	2.0	0.50	SCD24S
SCD24DH	40	2.0	50	0.15	2.0	0.47	SCD24DS
SCD24LH	40	2.0	50	1.0	2.0	0.40	SCD24LS
SCD24UH	40	2.0	40	0.2	2.0	0.49	SCD24US
SCD245UH	45	2.0	40	0.2	2.0	0.49	SCD245US
SCD26H	60	2.0	50	0.2	2.0	0.70	SCD26S
SCD210H	100	2.0	50	0.2	2.0	0.85	SCD210S
SCD215H	150	2.0	50	0.05	2.0	0.88	SCD215S
SCD220H	200	2.0	50	0.05	2.0	0.90	SCD220S

2.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip

 **PATENTED**

BSCD22H	20	2.0	50	0.2	2.0	0.50	BSCD22S
BSCD24H	40	2.0	50	0.2	2.0	0.50	BSCD24S
BSCD26H	60	2.0	50	0.2	2.0	0.70	BSCD26S
BSCD210H	100	2.0	50	0.2	2.0	0.85	BSCD210S

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

3.0 AMPERE / 0805 (Equivalent to SOD-323) / Halogen-free Superchip



MSCD302H	20	3.0	10	0.05	1.0	0.45	K 2.
MSCD304H	40	3.0	10	0.05	1.0	0.50	K 4.
MSCD306H	60	3.0	10	0.05	1.0	0.65	K 6.

3.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip



SSCD304SH	40	3.0	40	0.2	3.0	0.55	K4S
SSCD306SH	60	3.0	40	0.2	3.0	0.80	K6S

3.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



SCD32H	20	3.0	80	0.2	3.0	0.50	SCD 32.
SCD32LH	20	3.0	80	1.0	3.0	0.42	SCD 32L.
SCD33PH	30	3.0	70	0.2	3.0	0.44	SCD 33P.
SCD34H	40	3.0	80	0.2	3.0	0.50	SCD 34.
SCD34LH	40	3.0	80	1.0	3.0	0.42	SCD 34L.
SCD34TH	40	3.0	80	0.2	3.0	0.45	SCD 34T.
SCD34DH	40	3.0	80	0.15	3.0	0.50	SCD 34D.
SCD34MH	40	3.0	80	0.1	3.0	0.55	SCD 34M.
SCD345H	45	3.0	80	0.2	3.0	0.50	SCD 345.
SCD345PH	45	3.0	80	0.2	3.0	0.48	SCD 345P.
SCD345UH	45	3.0	80	0.2	3.0	0.54	SCD 345U.
SCD36H	60	3.0	80	0.2	3.0	0.70	SCD 36.
SCD36MH	60	3.0	70	0.1	3.0	0.70	SCD 36M.
SCD36RH	60	3.0	80	0.05	3.0	0.70	SCD 36R.
SCD310H	100	3.0	80	0.2	3.0	0.85	SCD 310.
SCD315H	150	3.0	80	0.05	3.0	0.88	SCD 315.
SCD320H	200	3.0	80	0.05	3.0	0.90	SCD 320.

3.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip



BSCD32H	20	3.0	80	0.5	3.0	0.50	BSCD 32.
BSCD34H	40	3.0	80	0.5	3.0	0.50	BSCD 34.
BSCD34LH	40	3.0	80	1.0	3.0	0.42	BSCD 34L.
BSCD36H	60	3.0	80	0.5	3.0	0.70	BSCD 36.
BSCD310H	100	3.0	80	0.5	3.0	0.85	BSCD 310.

3.0 AMPERE / 3220 (Equivalent to DO-214AB / SMC) / Halogen-free Superchip



CSCD32H	20	3.0	100	0.5	3.0	0.50	CSCD 32.
CSCD34H	40	3.0	100	0.5	3.0	0.50	CSCD 34.
CSCD36H	60	3.0	100	0.5	3.0	0.70	CSCD 36.
CSCD310H	100	3.0	100	0.5	3.0	0.85	CSCD 310.

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

5.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip



PATENTED

SCD53H	30	5.0 *	80	0.2	3.0	0.44	SCD 53
SCD54H	40	5.0	70	0.2	5.0	0.54	SCD 54
SCD545H	45	5.0	100	0.2	5.0	0.54	SCD 545
SCD545UH	45	5.0	80	0.2	0.2	0.54	SCD 545U

NOTE : " * " At T_C 83°C

5.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip



PATENTED

BSCD54H	40	5.0	105	0.5	5.0	0.55	BSCD 54
BSCD54DH	40	5.0	120	0.5	5.0	0.46	BSCD 54D
BSCD545ULH *	45	5.0	130	0.2	5.0	0.44	BSCD 545UL
BSCD56H	60	5.0	105	0.5	5.0	0.70	BSCD 56
BSCD510H	100	5.0	105	0.5	5.0	0.85	BSCD 510

NOTE : " * " The objective specification for product development, spec is subject to change, please contact ZOWIE for update.

5.0 AMPERE / 3220 (Equivalent to DO-214AB / SMC) / Halogen-free Superchip



PATENTED

CSCD52H	20	5.0	130	0.5	5.0	0.55	CSCD 52
CSCD54H	40	5.0	130	0.5	5.0	0.55	CSCD 54
CSCD56H	60	5.0	130	0.5	5.0	0.70	CSCD 56
CSCD510H	100	5.0	130	0.5	5.0	0.85	CSCD 510
CSCD515H	150	5.0	105	0.05	5.0	0.86	CSCD 515

8.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip



PATENTED

BSCD84H	40	8.0	135	0.5	8.0	0.55	BSCD 84
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SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

1.0 AMPERE / DO-214AC (SMA)



SS12	20	1.0	30	0.5	1.0	0.50	SS12
SS14	40	1.0	30	0.5	1.0	0.50	SS14
SS16	60	1.0	30	0.5	1.0	0.70	SS16
SS110	100	1.0	30	0.5	1.0	0.85	SS110

1.0 AMPERE / DO-214AC (SMA) / Halogen-free



SS12H	20	1.0	30	0.5	1.0	0.50	SS12.
SS14H	40	1.0	30	0.5	1.0	0.50	SS14.
SS16H	60	1.0	30	0.5	1.0	0.70	SS16.
SS110H	100	1.0	30	0.5	1.0	0.85	SS110.

1.0 AMPERE / DO-204AL (DO-41)



1N5817	20	1.0	25	1.0	1.0	0.45	1N5817
1N5818	30	1.0	25	1.0	1.0	0.55	1N5818
1N5819	40	1.0	25	1.0	1.0	0.60	1N5819

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free



1N5817H	20	1.0	25	1.0	1.0	0.45	1N5817.
1N5818H	30	1.0	25	1.0	1.0	0.55	1N5818.
1N5819H	40	1.0	25	1.0	1.0	0.60	1N5819.

1.0 AMPERE / DO-204AL (DO-41)



SB120	20	1.0	30	0.5	1.0	0.50	SB120
SB140	40	1.0	30	0.5	1.0	0.50	SB140
SB160	60	1.0	30	0.5	1.0	0.70	SB160
SB1100	100	1.0	30	0.5	1.0	0.85	SB110

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free



SB120H	20	1.0	30	0.5	1.0	0.50	SB120.
SB140H	40	1.0	30	0.5	1.0	0.50	SB140.
SB160H	60	1.0	30	0.5	1.0	0.70	SB160.
SB1100H	100	1.0	30	0.5	1.0	0.85	SB110.

2.0 AMPERE / DO-214AC (SMA)



SS22	20	2.0	50	0.5	2.0	0.50	SS22
SS24	40	2.0	50	0.5	2.0	0.50	SS24
SS26	60	2.0	50	0.5	2.0	0.70	SS26
SS210	100	2.0	50	0.5	2.0	0.85	SS210

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

2.0 AMPERE / DO-214AC (SMA) / Halogen-free



SS22H	20	2.0	50	0.5	2.0	0.50	SS22.
SS24H	40	2.0	50	0.5	2.0	0.50	SS24.
SS26H	60	2.0	50	0.5	2.0	0.70	SS26.
SS210H	100	2.0	50	0.5	2.0	0.85	SS210.

2.0 AMPERE / DO-204AL (DO-41)



SB220	20	2.0	50	0.5	2.0	0.50	SB220
SB240	40	2.0	50	0.5	2.0	0.50	SB240
SB260	60	2.0	50	0.5	2.0	0.70	SB260
SB2100	100	2.0	50	0.5	2.0	0.85	SB2100
SB2150	150	2.0	50	0.5	2.0	0.87	SB2150
SB2200	200	2.0	50	0.5	2.0	0.90	SB2200

2.0 AMPERE / DO-204AL (DO-41) / Halogen-free



SB220H	20	2.0	50	0.5	2.0	0.50	SB220.
SB240H	40	2.0	50	0.5	2.0	0.50	SB240.
SB260H	60	2.0	50	0.5	2.0	0.70	SB260.
SB2100H	100	2.0	50	0.5	2.0	0.85	SB2100.
SB2150H	150	2.0	50	0.5	2.0	0.87	SB2150.
SB2200H	200	2.0	50	0.5	2.0	0.90	SB2200.

3.0 AMPERE / DO-214AA (SMB)



SS32	20	3.0	80	0.5	3.0	0.50	SS32
SS34	40	3.0	80	0.5	3.0	0.50	SS34
SS36	60	3.0	80	0.5	3.0	0.70	SS36
SS310	100	3.0	80	0.5	3.0	0.85	SS310

3.0 AMPERE / DO-214AA (SMB) / Halogen-free



SS32H	20	3.0	80	0.5	3.0	0.50	SS32.
SS34H	40	3.0	80	0.5	3.0	0.50	SS34.
SS36H	60	3.0	80	0.5	3.0	0.70	SS36.
SS310H	100	3.0	80	0.5	3.0	0.85	SS310.

3.0 AMPERE / DO-214AB (SMC)



SC32	20	3.0	100	0.5	3.0	0.50	SC32
SC34	40	3.0	100	0.5	3.0	0.50	SC34
SC36	60	3.0	100	0.5	3.0	0.70	SC36
SC310	100	3.0	100	0.5	3.0	0.85	SC310

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

3.0 AMPERE / DO-214AB (SMC) / Halogen-free



SC32H	20	3.0	100	0.5	3.0	0.50	SC32.
SC34H	40	3.0	100	0.5	3.0	0.50	SC34.
SC36H	60	3.0	100	0.5	3.0	0.70	SC36.
SC310H	100	3.0	100	0.5	3.0	0.85	SC310.

3.0 AMPERE / DO-201AD (DO-27)



1N5820	20	3.0	80	2.0	3.0	0.475	1N5820
1N5821	30	3.0	80	2.0	3.0	0.500	1N5821
1N5822	40	3.0	80	2.0	3.0	0.525	1N5822

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free



1N5820H	20	3.0	80	2.0	3.0	0.475	1N5820.
1N5821H	30	3.0	80	2.0	3.0	0.500	1N5821.
1N5822H	40	3.0	80	2.0	3.0	0.525	1N5822.

3.0 AMPERE / DO-201AD (DO-27)



SB320	20	3.0	80	0.5	3.0	0.50	SB320
SB340	40	3.0	80	0.5	3.0	0.50	SB340
SB360	60	3.0	80	0.5	3.0	0.70	SB360
SB3100	100	3.0	80	0.5	3.0	0.85	SB3100
SB3150	150	3.0	80	0.05	3.0	0.87	SB3150
SB3200	200	3.0	80	0.05	3.0	0.90	SB3200

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free



SB320H	20	3.0	80	0.5	3.0	0.50	SB320.
SB340H	40	3.0	80	0.5	3.0	0.50	SB340.
SB360H	60	3.0	80	0.5	3.0	0.70	SB360.
SB3100H	100	3.0	80	0.5	3.0	0.85	SB3100.
SB3150H	150	3.0	80	0.05	3.0	0.87	SB3150.
SB3200H	200	3.0	80	0.05	3.0	0.90	SB3200.

5.0 AMPERE / DO-214AB (SMC)



SC52	20	5.0	125	0.5	5.0	0.55	SC52
SC54	40	5.0	125	0.5	5.0	0.55	SC54
SC56	60	5.0	125	0.5	5.0	0.70	SC56
SC510	100	5.0	125	0.5	5.0	0.85	SC510

SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	

5.0 AMPERE / DO-214AB (SMC) / Halogen-free



SC52H	20	5.0	125	0.5	5.0	0.55	SC52.
SC54H	40	5.0	125	0.5	5.0	0.55	SC54.
SC56H	60	5.0	125	0.5	5.0	0.70	SC56.
SC510H	100	5.0	125	0.5	5.0	0.85	SC510.

5.0 AMPERE / DO-201AD (DO-27)



SB520	20	5.0	150	0.5	5.0	0.55	SB520
SB540	40	5.0	150	0.5	5.0	0.55	SB540
SB560	60	5.0	150	0.5	5.0	0.70	SB560
SB5100	100	5.0	150	0.5	5.0	0.85	SB5100
SB5150	150	5.0	100	0.05	5.0	0.87	SB5150
SB5200	200	5.0	100	0.05	5.0	0.90	SB5200

5.0 AMPERE / DO-201AD (DO-27) / Halogen-free



SB520H	20	5.0	150	0.5	5.0	0.55	SB520.
SB540H	40	5.0	150	0.5	5.0	0.55	SB540.
SB560H	60	5.0	150	0.5	5.0	0.70	SB560.
SB5100H	100	5.0	150	0.5	5.0	0.85	SB5100.
SB5150H	150	5.0	100	0.05	5.0	0.87	SB5150.
SB5200H	200	5.0	100	0.05	5.0	0.90	SB5200.

8.0 AMPERE / DO-201AD (DO-27)



SB840	40	8.0	175	0.5	8.0	0.55	SB840
SB860	60	8.0	175	0.5	8.0	0.70	SB860

8.0 AMPERE / DO-201AD (DO-27) / Halogen-free



SB840H	40	8.0	175	0.5	8.0	0.55	SB840.
SB860H	60	8.0	175	0.5	8.0	0.70	SB860.



SCHOTTKY BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	mA	A	V	



1.0 AMPERE / MBC / Halogen-free Superchip



PATENTED

SMBC104H	40	1.0	30	0.2	1.0	0.50	SMBC 104.
SMBC106H	60	1.0	30	0.2	1.0	0.70	SMBC 106.
SMBC110H	100	1.0	30	0.2	1.0	0.85	SMBC 110.



Low VF

1.0 AMPERE / MBC / Halogen-free Superchip



PATENTED

SMBC104LH	40	1.0	30	1.0	1.0	0.40	SMBC 104L.
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2.0 AMPERE / MBC / Halogen-free Superchip



PATENTED

SMBC204H	40	2.0	50	0.2	2.0	0.50	SMBC 204.
SMBC206H	60	2.0	50	0.2	2.0	0.70	SMBC 206.
SMBC210H	100	2.0	50	0.2	2.0	0.85	SMBC 210.



Low VF

2.0 AMPERE / MBC / Halogen-free Superchip



PATENTED

SMBC204LH	40	2.0	50	1.0	2.0	0.40	SMBC 204L.
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Low VF

3.0 AMPERE / MBC / Halogen-free Superchip



PATENTED

SMBC304MH	40	3.0	65	0.10	3.0	0.55	SMBC 304M.
SMBC306MH	60	3.0	80	0.05	3.0	0.70	SMBC 306M.

TO-220 / ITO-220 SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Operating Junction Temp.
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _J
	V	A	A	mA	A	V	°C

NEW **Low VF**

10 AMPERE / TO-220AB

SBL1045UCTS	45	10	100	0.25	5.0	0.54	150
SBL1060UCTS	60	10	100	0.25	5.0	0.60	150
TBR10100CTS	100	10	100	0.10	5.0	0.77	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

10 AMPERE / TO-220AB / Halogen-free

SBL1040CTSH	40	10	150	0.20	5.0	0.55	125
SBL1045CTSH	45	10	150	0.20	5.0	0.55	125
SBL1060CTSH	60	10	150	0.20	5.0	0.70	125
MBR10100CTSH	100	10	150	0.01	5.0	0.82	150
MBR10150CTSH	150	10	175	0.005	5.0	0.88	175
MBR10200CTSH	200	10	175	0.005	5.0	0.90	175

NEW **Low VF**

10 AMPERE / ITO-220AB

SBL1045UCFS	45	10	100	0.25	5.0	0.54	150
SBL1060UCFS	60	10	100	0.25	5.0	0.60	150
TBR10100CFS	100	10	100	0.10	5.0	0.77	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

10 AMPERE / ITO-220AB / Halogen-free

SBL1040CFSH	40	10	150	0.20	5.0	0.55	125
SBL1045CFSH	45	10	150	0.20	5.0	0.55	125
SBL1060CFSH	60	10	150	0.20	5.0	0.70	125
MBR10100CFSH	100	10	150	0.01	5.0	0.82	150
MBR10150CFSH	150	10	175	0.005	5.0	0.88	175
MBR10200CFSH	200	10	175	0.005	5.0	0.90	175

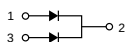
NEW **Low VF**

20 AMPERE / TO-220AB

SBL2045UCTS	45	20	160	0.25	10	0.51	150
SBL2060UCTS	60	20	160	0.25	10	0.57	150
TBR20100CTS	100	20	160	0.10	10	0.73	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

CKT connection of TO-220AB and ITO-220AB



TO-220 / ITO-220 SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Operating Junction Temp.
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _J
	V	A	A	mA	A	V	°C



20 AMPERE / TO-220AB / Halogen-free

SBL2040CTSH	40	20	200	0.50	10	0.55	125
SBL2045CTSH	45	20	200	0.50	10	0.55	125
SBL2060CTSH	60	20	200	0.50	10	0.70	125
MBR20100CTSH	100	20	200	0.01	10	0.82	150
MBR20150CTSH	150	20	200	0.005	10	0.90	175
MBR20200CTSH	200	20	200	0.005	10	0.90	175



20 AMPERE / ITO-220AB

SBL2045UCFS	45	20	160	0.25	10	0.51	150
SBL2060UCFS	60	20	160	0.25	10	0.57	150
TBR20100CFS	100	20	160	0.10	10	0.73	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.



20 AMPERE / ITO-220AB / Halogen-free

SBL2040CFSH	40	20	200	0.50	10	0.55	125
SBL2045CFSH	45	20	200	0.50	10	0.55	125
SBL2060CFSH	60	20	200	0.50	10	0.70	125
MBR20100CFSH	100	20	200	0.01	10	0.82	150
MBR20150CFSH	150	20	200	0.005	10	0.90	175
MBR20200CFSH	200	20	200	0.005	10	0.90	175



30 AMPERE / TO-220AB

SBL3045UCTS	45	30	275	0.35	15	0.54	150
SBL3045UDCTS	45	30	275	0.35	15	0.52	150
SBL3060UCTS	60	30	275	0.25	15	0.61	150
SBL3060UDCTS	60	30	275	0.50	15	0.59	150
TBR30100CTS	100	30	200	0.15	15	0.75	150

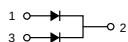
NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.



30 AMPERE / TO-220AB / Halogen-free

SBL3040CTSH	40	30	275	0.50	15	0.55	125
SBL3045CTSH	45	30	275	0.50	15	0.55	125
SBL3060CTSH	60	30	275	0.50	15	0.70	125
MBR30100CTSH	100	30	275	0.01	15	0.85	150
MBR30150CTSH	150	30	275	0.005	15	0.88	175
MBR30200CTSH	200	30	275	0.005	15	0.90	175

NOTE : CKT connection of TO-220AB and ITO-220AB



TO-220 / ITO-220 SCHOTTKY BARRIER RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Operating Junction Temp.
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _J
	V	A	A	mA	A	V	°C

NEW Low VF



30 AMPERE / ITO-220AB

SBL3045UCFS	45	30	275	0.35	15	0.54	150
SBL3045UDCFS	45	30	275	0.35	15	0.52	150
SBL3060UCFS	60	30	275	0.25	15	0.61	150
SBL3060UDCFS	60	30	275	0.50	15	0.59	150
TBR30100CFS	100	30	200	0.15	15	0.75	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.



30 AMPERE / ITO-220AB / Halogen-free

SBL3040CFSH	40	30	275	0.50	15	0.55	125
SBL3045CFSH	45	30	275	0.50	15	0.55	125
SBL3060CFSH	60	30	275	0.50	15	0.70	125
MBR30100CFSH	100	30	275	0.01	15	0.85	150
MBR30150CFSH	150	30	275	0.005	15	0.88	175
MBR30200CFSH	200	30	275	0.005	15	0.90	175

NEW Low VF



40 AMPERE / TO-220AB

SBL4045UCTS	45	40	300	0.35	20	0.55	150
SBL4060UCTS	60	40	300	0.50	20	0.61	150
TBR40100CTS	100	40	250	0.20	20	0.82	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

NEW Low VF

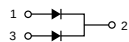


40 AMPERE / ITO-220AB

SBL4045UCFS	45	40	300	0.35	20	0.55	150
SBL4060UCFS	60	40	300	0.50	20	0.61	150
TBR40100CFS	100	40	250	0.20	20	0.82	150

NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

CKT connection of TO-220AB and ITO-220AB



SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

SGC10DH	200	1.0	15	2.0	1.0	1.00	10 DD.
SGC10DLH	200	1.0	35	5.0	1.0	0.95	10 DL.
SGC10GH	400	1.0	15	2.0	1.0	1.00	10 DG.
SGC10GLH	400	1.0	35	5.0	1.0	0.95	10 GL.
SGC10JH	600	1.0	15	2.0	1.0	1.00	10 DJ.
SGC10JLH	600	1.0	35	5.0	1.0	0.95	10 JL.
SGC10KH	800	1.0	15	2.0	1.0	1.00	10 DK.
SGC10KLH	800	1.0	35	5.0	1.0	0.95	10 KL.
SGC10MH	1000	1.0	15	2.0	1.0	1.00	10 DM.
SGC10MLH	1000	1.0	35	5.0	1.0	0.95	10 ML.

1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

BYD17ZDH	200	1.0	30	1.0	1.0	1.00	17 ZD.
BYD17ZDLH	200	1.0	40	5.0	1.0	0.93	17 ZDL.
BYD17ZGH	400	1.0	30	1.0	1.0	1.00	17 ZG.
BYD17ZGLH	400	1.0	40	5.0	1.0	0.93	17 ZGL.
BYD17ZJH	600	1.0	30	1.0	1.0	1.00	17 ZJ.
BYD17ZJLH	600	1.0	40	5.0	1.0	0.93	17 ZJL.
BYD17ZKH	800	1.0	30	1.0	1.0	1.00	17 ZK.
BYD17ZKLH	800	1.0	40	5.0	1.0	0.93	17 ZKL.
BYD17ZMH	1000	1.0	30	1.0	1.0	1.00	17 ZM.
BYD17ZMLH	1000	1.0	40	5.0	1.0	0.93	17 ZML.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II

 **PATENTED**

GC10DH	200	1.0	30	5.0	1.0	1.00	GC 10D.
GC10DLH	200	1.0	40	5.0	1.0	0.93	GC 10DL.
GC10GH	400	1.0	30	5.0	1.0	1.00	GC 10G.
GC10GLH	400	1.0	40	5.0	1.0	0.93	GC 10GL.
GC10JH	600	1.0	30	5.0	1.0	1.00	GC 10J.
GC10JLH	600	1.0	40	5.0	1.0	0.93	GC 10JL.
GC10KH	800	1.0	30	5.0	1.0	1.00	GC 10K.
GC10KLH	800	1.0	40	5.0	1.0	0.93	GC 10KL.
GC10MH	1000	1.0	30	5.0	1.0	1.00	GC 10M.
GC10MLH	1000	1.0	40	5.0	1.0	0.93	GC 10ML.

1.0 AMPERE / R-1 Superex II

 **PATENTED**

G110D	200	1.0	25	5.0	1.0	1.00	G1D
G110DL	200	1.0	30	5.0	1.0	0.92	G1DL
G110G	400	1.0	25	5.0	1.0	1.00	G1G
G110GL	400	1.0	30	5.0	1.0	0.92	G1GL
G110J	600	1.0	25	5.0	1.0	1.00	G1J
G110JL	600	1.0	30	5.0	1.0	0.92	G1JL
G110K	800	1.0	25	5.0	1.0	1.00	G1K
G110KL	800	1.0	30	5.0	1.0	0.93	G1KL
G110M	1000	1.0	25	5.0	1.0	1.00	G1M
G110ML	1000	1.0	30	5.0	1.0	0.93	G1ML

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

1.0 AMPERE / R-1 / Halogen-free Superex II

 **PATENTED**

G110DH	200	1.0	25	5.0	1.0	1.00	G1D.
G110DLH	200	1.0	30	5.0	1.0	0.92	G1DL.
G110GH	400	1.0	25	5.0	1.0	1.00	G1G.
G110GLH	400	1.0	30	5.0	1.0	0.92	G1GL.
G110JH	600	1.0	25	5.0	1.0	1.00	G1J.
G110JLH	600	1.0	30	5.0	1.0	0.92	G1JL.
G110KH	800	1.0	25	5.0	1.0	1.00	G1K.
G110KLH	800	1.0	30	5.0	1.0	0.93	G1KL.
G110MH	1000	1.0	25	5.0	1.0	1.00	G1M.
G110MLH	1000	1.0	30	5.0	1.0	0.93	G1ML.

1.0 AMPERE / DO-204AL (DO-41) Superex II

 **PATENTED**

GP10D	200	1.0	30	5.0	1.0	1.00	GP10D
GP10DL	200	1.0	50	5.0	1.0	0.90	GP10DL
GP10G	400	1.0	30	5.0	1.0	1.00	GP10G
GP10GL	400	1.0	50	5.0	1.0	0.90	GP10GL
GP10J	600	1.0	30	5.0	1.0	1.00	GP10J
GP10JL	600	1.0	50	5.0	1.0	0.90	GP10JL
GP10K	800	1.0	30	5.0	1.0	1.00	GP10K
GP10KL	800	1.0	50	5.0	1.0	0.92	GP10KL
GP10M	1000	1.0	30	5.0	1.0	1.00	GP10M
GP10ML	1000	1.0	50	5.0	1.0	0.92	GP10ML
GP10Q	1200	1.0	30	5.0	1.0	1.25	GP10Q
GP10V	1400	1.0	30	5.0	1.0	1.25	GP10V
GP10Y	1600	1.0	30	5.0	1.0	1.25	GP10Y
GP02-20	2000	1.0	30	5.0	1.0	2.00	GP02-20

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free Superex II

 **PATENTED**

GP10DH	200	1.0	30	5.0	1.0	1.00	GP10D.
GP10DLH	200	1.0	50	5.0	1.0	0.90	GP10DL.
GP10GH	400	1.0	30	5.0	1.0	1.00	GP10G.
GP10GLH	400	1.0	50	5.0	1.0	0.90	GP10GL.
GP10JH	600	1.0	30	5.0	1.0	1.00	GP10J.
GP10JLH	600	1.0	50	5.0	1.0	0.90	GP10JL.
GP10KH	800	1.0	30	5.0	1.0	1.00	GP10K.
GP10KLH	800	1.0	50	5.0	1.0	0.92	GP10KL.
GP10MH	1000	1.0	30	5.0	1.0	1.00	GP10M.
GP10MLH	1000	1.0	50	5.0	1.0	0.92	GP10ML.
GP10QH	1200	1.0	30	5.0	1.0	1.25	GP10Q.
GP10VH	1400	1.0	30	5.0	1.0	1.25	GP10V.
GP10YH	1600	1.0	30	5.0	1.0	1.25	GP10Y.
GP02-20H	2000	1.0	30	5.0	1.0	2.00	GP02-20.

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

1.0 AMPERE / DO-214AC (SMA) Superex II



GF10D	200	1.0	30	5.0	1.0	1.00	S10D
GF10DL	200	1.0	45	5.0	1.0	0.91	S10DL
GF10G	400	1.0	30	5.0	1.0	1.00	S10G
GF10GL	400	1.0	45	5.0	1.0	0.91	S10GL
GF10J	600	1.0	30	5.0	1.0	1.00	S10J
GF10JL	600	1.0	45	5.0	1.0	0.91	S10JL
GF10K	800	1.0	30	5.0	1.0	1.00	S10K
GF10KL	800	1.0	40	5.0	1.0	0.92	S10KL
GF10M	1000	1.0	30	5.0	1.0	1.00	S10M
GF10ML	1000	1.0	40	5.0	1.0	0.92	S10ML
GF10Q	1200	1.0	30	5.0	1.0	1.25	S10Q
GF10Y	1600	1.0	30	5.0	1.0	1.25	S10Y
GF02-20	2000	1.0	30	5.0	1.0	2.00	S02-20

1.0 AMPERE / DO-214AC (SMA) / Halogen-free Superex II



GF10DH	200	1.0	30	5.0	1.0	1.00	S10D.
GF10DLH	200	1.0	45	5.0	1.0	0.91	S10DL.
GF10GH	400	1.0	30	5.0	1.0	1.00	S10G.
GF10GLH	400	1.0	45	5.0	1.0	0.91	S10GL.
GF10JH	600	1.0	30	5.0	1.0	1.00	S10J.
GF10JLH	600	1.0	45	5.0	1.0	0.91	S10JL.
GF10KH	800	1.0	30	5.0	1.0	1.00	S10K.
GF10KLH	800	1.0	40	5.0	1.0	0.92	S10KL.
GF10MH	1000	1.0	30	5.0	1.0	1.00	S10M.
GF10MLH	1000	1.0	40	5.0	1.0	0.92	S10ML.
GF10QH	1200	1.0	30	5.0	1.0	1.25	S10Q.
GF10YH	1600	1.0	30	5.0	1.0	1.25	S10Y.
GF02-20H	2000	1.0	30	5.0	1.0	2.00	S02-20.

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II



GC20DH	200	2.0	50	5.0	2.0	1.00	GC 20D.
GC20DLH	200	2.0	65	5.0	2.0	0.93	GC 20DL.
GC20GH	400	2.0	50	5.0	2.0	1.00	GC 20G.
GC20GLH	400	2.0	65	5.0	2.0	0.93	GC 20GL.
GC20JH	600	2.0	50	5.0	2.0	1.00	GC 20J.
GC20JLH	600	2.0	65	5.0	2.0	0.93	GC 20JL.
GC20KH	800	2.0	50	5.0	2.0	1.00	GC 20K.
GC20KLH	800	2.0	60	5.0	2.0	0.93	GC 20KL.
GC20MH	1000	2.0	50	5.0	2.0	1.00	GC 20M.
GC20MLH	1000	2.0	60	5.0	2.0	0.93	GC 20ML.

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

2.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



PATENTED

BGC20DH	200	2.0	50	5.0	2.0	1.00	BGC 20D.
BGC20DLH	200	2.0	65	5.0	2.0	0.93	BGC 20DL.
BGC20GH	400	2.0	50	5.0	2.0	1.00	BGC 20G.
BGC20GLH	400	2.0	65	5.0	2.0	0.93	BGC 20GL.
BGC20JH	600	2.0	50	5.0	2.0	1.00	BGC 20J.
BGC20JLH	600	2.0	65	5.0	2.0	0.93	BGC 20JL.
BGC20KH	800	2.0	50	5.0	2.0	1.00	BGC 20K.
BGC20KLH	800	2.0	60	5.0	2.0	0.93	BGC 20KL.
BGC20MH	1000	2.0	50	5.0	2.0	1.00	BGC 20M.
BGC20MLH	1000	2.0	60	5.0	2.0	0.93	BGC 20ML.

2.0 AMPERE / DO-204AC (DO-15) Superex II



PATENTED

GP20D	200	2.0	65	5.0	2.0	1.00	GP20D
GP20DL	200	2.0	100	5.0	2.0	0.90	GP20DL
GP20G	400	2.0	65	5.0	2.0	1.00	GP20G
GP20GL	400	2.0	100	5.0	2.0	0.90	GP20GL
GP20J	600	2.0	65	5.0	2.0	1.00	GP20J
GP20JL	600	2.0	100	5.0	2.0	0.90	GP20JL
GP20K	800	2.0	65	5.0	2.0	1.00	GP20K
GP20KL	800	2.0	100	5.0	2.0	0.92	GP20KL
GP20M	1000	2.0	65	5.0	2.0	1.00	GP20M
GP20ML	1000	2.0	100	5.0	2.0	0.92	GP20ML

2.0 AMPERE / DO-204AC (DO-15) / Halogen-free Superex II



PATENTED

GP20DH	200	2.0	65	5.0	2.0	1.00	GP20D.
GP20DLH	200	2.0	100	5.0	2.0	0.90	GP20DL.
GP20GH	400	2.0	65	5.0	2.0	1.00	GP20G.
GP20GLH	400	2.0	100	5.0	2.0	0.90	GP20GL.
GP20JH	600	2.0	65	5.0	2.0	1.00	GP20J.
GP20JLH	600	2.0	100	5.0	2.0	0.90	GP20JL.
GP20KH	800	2.0	65	5.0	2.0	1.00	GP20K.
GP20KLH	800	2.0	100	5.0	2.0	0.92	GP20KL.
GP20MH	1000	2.0	65	5.0	2.0	1.00	GP20M.
GP20MLH	1000	2.0	100	5.0	2.0	0.92	GP20ML.

2.0 AMPERE / DO-214AA (SMB) Superex II



PATENTED

GF20D	200	2.0	65	5.0	2.0	1.00	S20D
GF20DL	200	2.0	85	5.0	2.0	0.91	S20DL
GF20G	400	2.0	65	5.0	2.0	1.00	S20G
GF20GL	400	2.0	85	5.0	2.0	0.91	S20GL
GF20J	600	2.0	65	5.0	2.0	1.00	S20J
GF20JL	600	2.0	85	5.0	2.0	0.91	S20JL
GF20K	800	2.0	65	5.0	2.0	1.00	S20K
GF20KL	800	2.0	75	5.0	2.0	0.92	S20KL
GF20M	1000	2.0	65	5.0	2.0	1.00	S20M
GF20ML	1000	2.0	75	5.0	2.0	0.92	S20ML

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	μA	A	V	

2.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



GF20DH	200	2.0	65	5.0	2.0	1.00	S20D.
GF20DLH	200	2.0	85	5.0	2.0	0.91	S20DL.
GF20GH	400	2.0	65	5.0	2.0	1.00	S20G.
GF20GLH	400	2.0	85	5.0	2.0	0.91	S20GL.
GF20JH	600	2.0	65	5.0	2.0	1.00	S20J.
GF20JLH	600	2.0	85	5.0	2.0	0.91	S20JL.
GF20KH	800	2.0	65	5.0	2.0	1.00	S20K.
GF20KLH	800	2.0	75	5.0	2.0	0.92	S20KL.
GF20MH	1000	2.0	65	5.0	2.0	1.00	S20M.
GF20MLH	1000	2.0	75	5.0	2.0	0.92	S20ML.

3.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



BGC30DH	200	3.0	95	5.0	3.0	1.00	BGC 30D.
BGC30DLH	200	3.0	115	5.0	3.0	0.93	BGC 30DL.
BGC30GH	400	3.0	95	5.0	3.0	1.00	BGC 30G.
BGC30GLH	400	3.0	115	5.0	3.0	0.93	BGC 30GL.
BGC30JH	600	3.0	95	5.0	3.0	1.00	BGC 30J.
BGC30JLH	600	3.0	115	5.0	3.0	0.93	BGC 30JL.
BGC30KH	800	3.0	95	5.0	3.0	1.00	BGC 30K.
BGC30KLH	800	3.0	110	5.0	3.0	0.93	BGC 30KL.
BGC30MH	1000	3.0	95	5.0	3.0	1.00	BGC 30M.
BGC30MLH	1000	3.0	110	5.0	3.0	0.93	BGC 30ML.

3.0 AMPERE / 3220 (Equivalent to DO-214AB / SMC) / Halogen-free Superchip Superex II



CGC30DH	200	3.0	100	5.0	3.0	1.00	CGC 30D.
CGC30DLH	200	3.0	120	5.0	3.0	0.93	CGC 30DL.
CGC30GH	400	3.0	100	5.0	3.0	1.00	CGC 30G.
CGC30GLH	400	3.0	120	5.0	3.0	0.93	CGC 30GL.
CGC30JH	600	3.0	100	5.0	3.0	1.00	CGC 30J.
CGC30JLH	600	3.0	120	5.0	3.0	0.93	CGC 30JL.
CGC30KH	800	3.0	100	5.0	3.0	1.00	CGC 30K.
CGC30KLH	800	3.0	120	5.0	3.0	0.93	CGC 30KL.
CGC30MH	1000	3.0	100	5.0	3.0	1.00	CGC 30M.
CGC30MLH	1000	3.0	120	5.0	3.0	0.93	CGC 30ML.

3.0 AMPERE / DO-201AD (DO-27) Superex II



GP30D	200	3.0	125	5.0	3.0	1.00	GP30D
GP30DL	200	3.0	140	5.0	3.0	0.90	GP30DL
GP30G	400	3.0	125	5.0	3.0	1.00	GP30G
GP30GL	400	3.0	140	5.0	3.0	0.90	GP30GL
GP30J	600	3.0	125	5.0	3.0	1.00	GP30J
GP30JL	600	3.0	140	5.0	3.0	0.90	GP30JL
GP30K	800	3.0	125	5.0	3.0	1.00	GP30K
GP30KL	800	3.0	140	5.0	3.0	0.92	GP30KL
GP30M	1000	3.0	125	5.0	3.0	1.00	GP30M
GP30ML	1000	3.0	140	5.0	3.0	0.92	GP30ML

SINTERED GLASS PASSIVATED JUNCTION RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free Superex II



PATENTED

GP30DH	200	3.0	125	5.0	3.0	1.00	GP30D.
GP30DLH	200	3.0	140	5.0	3.0	0.90	GP30DL.
GP30GH	400	3.0	125	5.0	3.0	1.00	GP30G.
GP30GLH	400	3.0	140	5.0	3.0	0.90	GP30GL.
GP30JH	600	3.0	125	5.0	3.0	1.00	GP30J.
GP30JLH	600	3.0	140	5.0	3.0	0.90	GP30JL.
GP30KH	800	3.0	125	5.0	3.0	1.00	GP30K.
GP30KLH	800	3.0	140	5.0	3.0	0.92	GP30KL.
GP30MH	1000	3.0	125	5.0	3.0	1.00	GP30M.
GP30MLH	1000	3.0	140	5.0	3.0	0.92	GP30ML.

3.0 AMPERE / DO-214AA (SMB) Superex II



PATENTED

GF30D	200	3.0	115	5.0	3.0	1.00	S30D
GF30DL	200	3.0	140	5.0	3.0	0.91	S30DL
GF30G	400	3.0	115	5.0	3.0	1.00	S30G
GF30GL	400	3.0	140	5.0	3.0	0.91	S30GL
GF30J	600	3.0	115	5.0	3.0	1.00	S30J
GF30JL	600	3.0	140	5.0	3.0	0.91	S30JL
GF30K	800	3.0	115	5.0	3.0	1.00	S30K
GF30KL	800	3.0	125	5.0	3.0	0.92	S30KL
GF30M	1000	3.0	115	5.0	3.0	1.00	S30M
GF30ML	1000	3.0	125	5.0	3.0	0.92	S30ML

3.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



PATENTED

GF30DH	200	3.0	115	5.0	3.0	1.00	S30D.
GF30DLH	200	3.0	140	5.0	3.0	0.91	S30DL.
GF30GH	400	3.0	115	5.0	3.0	1.00	S30G.
GF30GLH	400	3.0	140	5.0	3.0	0.91	S30GL.
GF30JH	600	3.0	115	5.0	3.0	1.00	S30J.
GF30JLH	600	3.0	140	5.0	3.0	0.91	S30JL.
GF30KH	800	3.0	115	5.0	3.0	1.00	S30K.
GF30KLH	800	3.0	125	5.0	3.0	0.92	S30KL.
GF30MH	1000	3.0	115	5.0	3.0	1.00	S30M.
GF30MLH	1000	3.0	125	5.0	3.0	0.92	S30ML.

10 AMPERE / P-600 Superex II



PATENTED

GP100G	400	10	400	0.2	10	1.00	GP100G
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10 AMPERE / R-6 Superex II



PATENTED

GP100GC	400	10	400	0.2	10	1.00	GP100G
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SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

SRGC10DH	200	1.0	15	5.0	1.0	1.30	150	10 RD.
SRGC10GH	400	1.0	15	5.0	1.0	1.30	150	10 RG.
SRGC10JH	600	1.0	15	5.0	1.0	1.30	250	10 RJ.
SRGC10KH	800	1.0	15	5.0	1.0	1.30	300	10 RK.
SRGC10MH	1000	1.0	15	5.0	1.0	1.30	300	10 RM.

1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

BYD37ZDH	200	1.0	30	1.0	1.0	1.30	250	37 ZD.
BYD37ZGH	400	1.0	30	1.0	1.0	1.30	250	37 ZG.
BYD37ZJH	600	1.0	30	1.0	1.0	1.30	250	37 ZJ.
BYD37ZKH	800	1.0	30	1.0	1.0	1.30	300	37 ZK.
BYD37ZMH	1000	1.0	30	1.0	1.0	1.30	300	37 ZM.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II

 **PATENTED**

RGC10DH	200	1.0	30	5.0	1.0	1.30	150	RGC 10D.
RGC10GH	400	1.0	30	5.0	1.0	1.30	150	RGC 10G.
RGC10JH	600	1.0	30	5.0	1.0	1.30	250	RGC 10J.
RGC10KH	800	1.0	30	5.0	1.0	1.30	300	RGC 10K.
RGC10MH	1000	1.0	30	5.0	1.0	1.30	500	RGC 10M.
RGC10MLH	1000	1.0	60	1.0	1.0	1.20	500	RGC 10ML.

1.0 AMPERE / R-1 Superex II

 **PATENTED**

RG110D	200	1.0	25	5.0	1.0	1.30	150	R1D
RG110G	400	1.0	25	5.0	1.0	1.30	150	R1G
RG110J	600	1.0	25	5.0	1.0	1.30	250	R1J
RG110K	800	1.0	25	5.0	1.0	1.30	500	R1K
RG110M	1000	1.0	25	5.0	1.0	1.30	500	R1M

1.0 AMPERE / R-1 / Halogen-free Superex II

 **PATENTED**

RG110DH	200	1.0	25	5.0	1.0	1.30	150	R1D.
RG110GH	400	1.0	25	5.0	1.0	1.30	150	R1G.
RG110JH	600	1.0	25	5.0	1.0	1.30	250	R1J.
RG110KH	800	1.0	25	5.0	1.0	1.30	500	R1K.
RG110MH	1000	1.0	25	5.0	1.0	1.30	500	R1M.

SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / DO-204AL (DO-41) Superex II



PATENTED

RGP10D	200	1.0	30	5.0	1.0	1.30	150	RGP10D
RGP10G	400	1.0	30	5.0	1.0	1.30	150	RGP10G
RGP10J	600	1.0	30	5.0	1.0	1.30	250	RGP10J
RGP10JA	600	1.0	30	5.0	1.0	1.30	150	RGP10JA
RGP10K	800	1.0	30	5.0	1.0	1.30	500	RGP10K
RGP10KA	800	1.0	30	5.0	1.0	1.30	300	RGP10KA
RGP10M	1000	1.0	30	5.0	1.0	1.30	500	RGP10M
RGP10MA	1000	1.0	30	5.0	1.0	1.30	300	RGP10MA

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free Superex II



PATENTED

RGP10DH	200	1.0	30	5.0	1.0	1.30	150	RGP10D.
RGP10GH	400	1.0	30	5.0	1.0	1.30	150	RGP10G.
RGP10JH	600	1.0	30	5.0	1.0	1.30	250	RGP10J.
RGP10JAH	600	1.0	30	5.0	1.0	1.30	150	RGP10JA.
RGP10KH	800	1.0	30	5.0	1.0	1.30	500	RGP10K.
RGP10KAH	800	1.0	30	5.0	1.0	1.30	300	RGP10KA.
RGP10MH	1000	1.0	30	5.0	1.0	1.30	500	RGP10M.
RGP10MAH	1000	1.0	30	5.0	1.0	1.30	300	RGP10MA.

1.0 AMPERE / DO-204AL (DO-41) Superex II



PATENTED

RGP02-12	1200	1.0	20	5.0	1.0	1.80	300	RGP02-12
RGP02-15	1500	1.0	20	5.0	1.0	1.80	300	RGP02-15
RGP02-18	1800	1.0	20	5.0	1.0	1.80	300	RGP02-18
RGP02-20	2000	1.0	20	5.0	1.0	1.80	300	RGP02-20

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free Superex II



PATENTED

RGP02-12H	1200	1.0	20	5.0	1.0	1.80	300	RGP02-12.
RGP02-15H	1500	1.0	20	5.0	1.0	1.80	300	RGP02-15.
RGP02-18H	1800	1.0	20	5.0	1.0	1.80	300	RGP02-18.
RGP02-20H	2000	1.0	20	5.0	1.0	1.80	300	RGP02-20.

1.0 AMPERE / DO-214AC (SMA) Superex II



PATENTED

RGF10D	200	1.0	30	5.0	1.0	1.30	150	R10D
RGF10G	400	1.0	30	5.0	1.0	1.30	150	R10G
RGF10J	600	1.0	30	5.0	1.0	1.30	250	R10J
RGF10JA	600	1.0	30	5.0	1.0	1.30	150	R10JA
RGF10K	800	1.0	30	5.0	1.0	1.30	500	R10K
RGF10KA	800	1.0	30	5.0	1.0	1.30	300	R10KA
RGF10M	1000	1.0	30	5.0	1.0	1.30	500	R10M
RGF10MA	1000	1.0	30	5.0	1.0	1.30	300	R10MA

SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	μA	A	V	nS	

1.0 AMPERE / DO-214AC (SMA) / Halogen-free Superex II



RGF10DH	200	1.0	30	5.0	1.0	1.30	150	R10D.
RGF10GH	400	1.0	30	5.0	1.0	1.30	150	R10G.
RGF10JH	600	1.0	30	5.0	1.0	1.30	250	R10J.
RGF10JAH	600	1.0	30	5.0	1.0	1.30	150	R10JA.
RGF10KH	800	1.0	30	5.0	1.0	1.30	500	R10K.
RGF10KAH	800	1.0	30	5.0	1.0	1.30	300	R10KA.
RGF10MH	1000	1.0	30	5.0	1.0	1.30	500	R10M.
RGF10MAH	1000	1.0	30	5.0	1.0	1.30	300	R10MA.

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II



RGC20DH	200	2.0	60	5.0	2.0	1.30	150	RGC 20D.
RGC20GH	400	2.0	60	5.0	2.0	1.30	150	RGC 20G.
RGC20JH	600	2.0	60	5.0	2.0	1.30	250	RGC 20J.
RGC20KH	800	2.0	60	5.0	2.0	1.30	300	RGC 20K.
RGC20MH	1000	2.0	60	5.0	2.0	1.30	500	RGC 20M.

2.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



BRGC20DH	200	2.0	60	5.0	2.0	1.30	150	BRGC 20D.
BRGC20GH	400	2.0	60	5.0	2.0	1.30	150	BRGC 20G.
BRGC20JH	600	2.0	60	5.0	2.0	1.30	250	BRGC 20J.
BRGC20KH	800	2.0	60	5.0	2.0	1.30	300	BRGC 20K.
BRGC20MH	1000	2.0	60	5.0	2.0	1.30	500	BRGC 20M.

2.0 AMPERE / DO-204AC (DO-15) Superex II



RGP20D	200	2.0	65	5.0	2.0	1.30	150	RGP20D
RGP20G	400	2.0	65	5.0	2.0	1.30	150	RGP20G
RGP20J	600	2.0	65	5.0	2.0	1.30	250	RGP20J
RGP20JA	600	2.0	65	5.0	2.0	1.30	150	RGP20JA
RGP20K	800	2.0	65	5.0	2.0	1.30	500	RGP20K
RGP20KA	800	2.0	65	5.0	2.0	1.30	300	RGP20KA
RGP20M	1000	2.0	65	5.0	2.0	1.30	500	RGP20M
RGP20MA	1000	2.0	65	5.0	2.0	1.30	300	RGP20MA

2.0 AMPERE / DO-204AC (DO-15) / Halogen-free Superex II



RGP20DH	200	2.0	65	5.0	2.0	1.30	150	RGP20D.
RGP20GH	400	2.0	65	5.0	2.0	1.30	150	RGP20G.
RGP20JH	600	2.0	65	5.0	2.0	1.30	250	RGP20J.
RGP20JAH	600	2.0	65	5.0	2.0	1.30	150	RGP20JA.
RGP20KH	800	2.0	65	5.0	2.0	1.30	500	RGP20K.
RGP20KAH	800	2.0	65	5.0	2.0	1.30	300	RGP20KA.
RGP20MH	1000	2.0	65	5.0	2.0	1.30	500	RGP20M.
RGP20MAH	1000	2.0	65	5.0	2.0	1.30	300	RGP20MA.

SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

2.0 AMPERE / DO-214AA (SMB) Superex II



RGF20D	200	2.0	65	5.0	2.0	1.30	150	R20D
RGF20G	400	2.0	65	5.0	2.0	1.30	150	R20G
RGF20J	600	2.0	65	5.0	2.0	1.30	250	R20J
RGF20JA	600	2.0	65	5.0	2.0	1.30	150	R20JA
RGF20K	800	2.0	65	5.0	2.0	1.30	500	R20K
RGF20KA	800	2.0	65	5.0	2.0	1.30	300	R20KA
RGF20M	1000	2.0	65	5.0	2.0	1.30	500	R20M
RGF20MA	1000	2.0	65	5.0	2.0	1.30	300	R20MA

2.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



RGF20DH	200	2.0	65	5.0	2.0	1.30	150	R20D.
RGF20GH	400	2.0	65	5.0	2.0	1.30	150	R20G.
RGF20JH	600	2.0	65	5.0	2.0	1.30	250	R20J.
RGF20JAH	600	2.0	65	5.0	2.0	1.30	150	R20JA.
RGF20KH	800	2.0	65	5.0	2.0	1.30	500	R20K.
RGF20KAH	800	2.0	65	5.0	2.0	1.30	300	R20KA.
RGF20MH	1000	2.0	65	5.0	2.0	1.30	500	R20M.
RGF20MAH	1000	2.0	65	5.0	2.0	1.30	300	R20MA.

3.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



BRGC30DH	200	3.0	100	5.0	3.0	1.30	150	BRGC 30D.
BRGC30GH	400	3.0	100	5.0	3.0	1.30	150	BRGC 30G.
BRGC30JH	600	3.0	100	5.0	3.0	1.30	250	BRGC 30J.
BRGC30KH	800	3.0	100	5.0	3.0	1.30	300	BRGC 30K.
BRGC30MH	1000	3.0	100	5.0	3.0	1.30	500	BRGC 30M.

3.0 AMPERE / DO-201AD (DO-27) Superex II



RGP30D	200	3.0	125	5.0	3.0	1.30	150	RGP30D
RGP30G	400	3.0	125	5.0	3.0	1.30	150	RGP30G
RGP30J	600	3.0	125	5.0	3.0	1.30	250	RGP30J
RGP30JA	600	3.0	125	5.0	3.0	1.30	150	RGP30JA
RGP30K	800	3.0	125	5.0	3.0	1.30	500	RGP30K
RGP30KA	800	3.0	125	5.0	3.0	1.30	300	RGP30KA
RGP30M	1000	3.0	125	5.0	3.0	1.30	500	RGP30M
RGP30MA	1000	3.0	125	5.0	3.0	1.30	300	RGP30MA

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free Superex II



RGP30DH	200	3.0	125	5.0	3.0	1.30	150	RGP30D.
RGP30GH	400	3.0	125	5.0	3.0	1.30	150	RGP30G.
RGP30JH	600	3.0	125	5.0	3.0	1.30	250	RGP30J.
RGP30JAH	600	3.0	125	5.0	3.0	1.30	150	RGP30JA.
RGP30KH	800	3.0	125	5.0	3.0	1.30	500	RGP30K.
RGP30KAH	800	3.0	125	5.0	3.0	1.30	300	RGP30KA.
RGP30MH	1000	3.0	125	5.0	3.0	1.30	500	RGP30M.
RGP30MAH	1000	3.0	125	5.0	3.0	1.30	300	RGP30MA.

SINTERED GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

3.0 AMPERE / DO-214AA (SMB) Superex II



RGF30D	200	3.0	115	5.0	3.0	1.30	150	R30D
RGF30G	400	3.0	115	5.0	3.0	1.30	150	R30G
RGF30J	600	3.0	115	5.0	3.0	1.30	250	R30J
RGF30JA	600	3.0	115	5.0	3.0	1.30	150	R30JA
RGF30K	800	3.0	115	5.0	3.0	1.30	500	R30K
RGF30KA	800	3.0	115	5.0	3.0	1.30	300	R30KA
RGF30M	1000	3.0	115	5.0	3.0	1.30	500	R30M
RGF30MA	1000	3.0	115	5.0	3.0	1.30	300	R30MA

3.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



RGF30DH	200	3.0	115	5.0	3.0	1.30	150	R30D.
RGF30GH	400	3.0	115	5.0	3.0	1.30	150	R30G.
RGF30JH	600	3.0	115	5.0	3.0	1.30	250	R30J.
RGF30JAH	600	3.0	115	5.0	3.0	1.30	150	R30JA.
RGF30KH	800	3.0	115	5.0	3.0	1.30	500	R30K.
RGF30KAH	800	3.0	115	5.0	3.0	1.30	300	R30KA.
RGF30MH	1000	3.0	115	5.0	3.0	1.30	500	R30M.
RGF30MAH	1000	3.0	115	5.0	3.0	1.30	300	R30MA.

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

SEGC10DH	200	1.0	15	5.0	1.0	1.00	50	10 ED.
SEGC10GH	400	1.0	15	5.0	1.0	1.25	50	10 EG.
SEGC10JH	600	1.0	15	5.0	1.0	1.70	75	10 EJ.
SEGC10KH	800	1.0	15	5.0	1.0	1.70	75	10 EK.
SEGC10MH	1000	1.0	15	5.0	1.0	1.70	75	10 EM.

1.0 AMPERE / 1206 (Equivalent to SOD-87 , GL1M , SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

BYD57ZDH	200	1.0	30	5.0	1.0	1.70	50	57 ZD.
BYD57ZGH	400	1.0	30	5.0	1.0	1.70	50	57 ZG.
BYD57ZJH	600	1.0	30	5.0	1.0	1.70	50	57 ZJ.
BYD57ZKH	800	1.0	25	5.0	1.0	1.70	75	57 ZK.
BYD57ZMH	1000	1.0	25	5.0	1.0	1.70	75	57 ZM.

1.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II

 **PATENTED**

EGC10DH	200	1.0	30	5.0	1.0	1.00	50	EGC 10D.
EGC10GH	400	1.0	30	5.0	1.0	1.25	50	EGC 10G.
EGC10JH	600	1.0	25	5.0	1.0	1.70	75	EGC 10J.
EGC10KH	800	1.0	25	5.0	1.0	1.70	75	EGC 10K.
EGC10MH	1000	1.0	25	5.0	1.0	1.70	75	EGC 10M.

1.0 AMPERE / R-1 Superex II

 **PATENTED**

EG110D	200	1.0	25	5.0	1.0	1.00	50	E1D
EG110G	400	1.0	25	5.0	1.0	1.25	50	E1G
EG110J	600	1.0	25	5.0	1.0	1.70	75	E1J
EG110K	800	1.0	25	5.0	1.0	1.70	75	E1K
EG110M	1000	1.0	25	5.0	1.0	1.70	75	E1M

1.0 AMPERE / R-1 / Halogen-free Superex II

 **PATENTED**

EG110DH	200	1.0	25	5.0	1.0	1.00	50	E1DH
EG110GH	400	1.0	25	5.0	1.0	1.25	50	E1GH
EG110JH	600	1.0	25	5.0	1.0	1.70	75	E1JH
EG110KH	800	1.0	25	5.0	1.0	1.70	75	E1KH
EG110MH	1000	1.0	25	5.0	1.0	1.70	75	E1MH

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / DO-204AL (DO-41) Superex II



PATENTED

EGP10D	200	1.0	30	5.0	1.0	1.00	50	EGP10D
EGP10G	400	1.0	30	5.0	1.0	1.25	50	EGP10G
EGP10J	600	1.0	30	5.0	1.0	1.70	75	EGP10J
EGP10K	800	1.0	30	5.0	1.0	1.70	75	EGP10K
EGP10M	1000	1.0	30	5.0	1.0	1.70	75	EGP10M

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free Superex II



PATENTED

EGP10DH	200	1.0	30	5.0	1.0	1.00	50	EGP10D.
EGP10GH	400	1.0	30	5.0	1.0	1.25	50	EGP10G.
EGP10JH	600	1.0	30	5.0	1.0	1.70	75	EGP10J.
EGP10KH	800	1.0	30	5.0	1.0	1.70	75	EGP10K.
EGP10MH	1000	1.0	30	5.0	1.0	1.70	75	EGP10M.

1.0 AMPERE / DO-214AC (SMA) Superex II



PATENTED

EGF10D	200	1.0	30	5.0	1.0	1.00	50	E10D
EGF10G	400	1.0	30	5.0	1.0	1.25	50	E10G
EGF10J	600	1.0	30	5.0	1.0	1.70	75	E10J
EGF10K	800	1.0	30	5.0	1.0	1.70	75	E10K
EGF10M	1000	1.0	30	5.0	1.0	1.70	75	E10M

1.0 AMPERE / DO-214AC (SMA) / Halogen-free Superex II



PATENTED

EGF10DH	200	1.0	30	5.0	1.0	1.00	50	E10D.
EGF10GH	400	1.0	30	5.0	1.0	1.25	50	E10G.
EGF10JH	600	1.0	30	5.0	1.0	1.70	75	E10J.
EGF10KH	800	1.0	30	5.0	1.0	1.70	75	E10K.
EGF10MH	1000	1.0	30	5.0	1.0	1.70	75	E10M.

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II



PATENTED

EGC20DH	200	2.0	50	5.0	2.0	1.00	50	EGC20D.
EGC20GH	400	2.0	50	5.0	2.0	1.25	50	EGC20G.
EGC20JH	600	2.0	50	5.0	2.0	1.70	75	EGC20J.
EGC20KH	800	2.0	50	5.0	2.0	1.70	75	EGC20K.
EGC20MH	1000	2.0	50	5.0	2.0	1.70	75	EGC20M.

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

2.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



PATENTED

BEGC20DH	200	2.0	50	5.0	2.0	1.00	50	BEGC 20D.
BEGC20GH	400	2.0	50	5.0	2.0	1.25	50	BEGC 20G.
BEGC20JH	600	2.0	50	5.0	2.0	1.70	75	BEGC 20J.
BEGC20KH	800	2.0	50	5.0	2.0	1.70	75	BEGC 20K.
BEGC20MH	1000	2.0	50	5.0	2.0	1.70	75	BEGC 20M.

2.0 AMPERE / DO-204AC (DO-15) Superex II



PATENTED

EGP20D	200	2.0	65	5.0	2.0	1.00	50	EGP20D
EGP20G	400	2.0	65	5.0	2.0	1.25	50	EGP20G
EGP20J	600	2.0	60	5.0	2.0	1.70	75	EGP20J
EGP20K	800	2.0	60	5.0	2.0	1.70	75	EGP20K
EGP20M	1000	2.0	60	5.0	2.0	1.70	75	EGP20M

2.0 AMPERE / DO-204AC (DO-15) / Halogen-free Superex II



PATENTED

EGP20DH	200	2.0	65	5.0	2.0	1.00	50	EGP20D.
EGP20GH	400	2.0	65	5.0	2.0	1.25	50	EGP20G.
EGP20JH	600	2.0	60	5.0	2.0	1.70	75	EGP20J.
EGP20KH	800	2.0	60	5.0	2.0	1.70	75	EGP20K.
EGP20MH	1000	2.0	60	5.0	2.0	1.70	75	EGP20M.

2.0 AMPERE / DO-214AA (SMB) Superex II



PATENTED

EGF20D	200	2.0	65	5.0	2.0	1.00	50	E20D
EGF20G	400	2.0	65	5.0	2.0	1.25	50	E20G
EGF20J	600	2.0	60	5.0	2.0	1.70	75	E20J
EGF20K	800	2.0	60	5.0	2.0	1.70	75	E20K
EGF20M	1000	2.0	60	5.0	2.0	1.70	75	E20M

2.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



PATENTED

EGF20DH	200	2.0	65	5.0	2.0	1.00	50	E20D.
EGF20GH	400	2.0	65	5.0	2.0	1.25	50	E20G.
EGF20JH	600	2.0	60	5.0	2.0	1.70	75	E20J.
EGF20KH	800	2.0	60	5.0	2.0	1.70	75	E20K.
EGF20MH	1000	2.0	60	5.0	2.0	1.70	75	E20M.

3.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



PATENTED

BEGC30DH	200	3.0	95	5.0	3.0	1.00	50	BEGC 30D.
BEGC30GH	400	3.0	95	5.0	3.0	1.25	50	BEGC 30G.
BEGC30JH	600	3.0	95	5.0	3.0	1.70	75	BEGC 30J.
BEGC30KH	800	3.0	95	5.0	3.0	1.70	75	BEGC 30K.
BEGC30MH	1000	3.0	95	5.0	3.0	1.70	75	BEGC 30M.

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

3.0 AMPERE / DO-201AD (DO-27) Superex II

 **PATENTED**

EGP30D	200	3.0	125	5.0	3.0	1.00	50	EGP30D
EGP30G	400	3.0	125	5.0	3.0	1.25	50	EGP30G
EGP30J	600	3.0	115	5.0	3.0	1.70	75	EGP30J
EGP30K	800	3.0	115	5.0	3.0	1.70	75	EGP30K
EGP30M	1000	3.0	115	5.0	3.0	1.70	75	EGP30M

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free Superex II

 **PATENTED**

EGP30DH	200	3.0	125	5.0	3.0	1.00	50	EGP30D.
EGP30GH	400	3.0	125	5.0	3.0	1.25	50	EGP30G.
EGP30JH	600	3.0	115	5.0	3.0	1.70	75	EGP30J.
EGP30KH	800	3.0	115	5.0	3.0	1.70	75	EGP30K.
EGP30MH	1000	3.0	115	5.0	3.0	1.70	75	EGP30M.

3.0 AMPERE / DO-214AA (SMB) Superex II

 **PATENTED**

EGF30D	200	3.0	115	5.0	3.0	1.00	50	E30D
EGF30G	400	3.0	115	5.0	3.0	1.25	50	E30G
EGF30J	600	3.0	105	5.0	3.0	1.70	75	E30J
EGF30K	800	3.0	105	5.0	3.0	1.70	75	E30K
EGF30M	1000	3.0	105	5.0	3.0	1.70	75	E30M

3.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II

 **PATENTED**

EGF30DH	200	3.0	115	5.0	3.0	1.00	50	E30D.
EGF30GH	400	3.0	115	5.0	3.0	1.25	50	E30G.
EGF30JH	600	3.0	105	5.0	3.0	1.70	75	E30J.
EGF30KH	800	3.0	105	5.0	3.0	1.70	75	E30K.
EGF30MH	1000	3.0	105	5.0	3.0	1.70	75	E30M.

5.0 AMPERE / DO-201AD (DO-27) Superex II

 **PATENTED**

EGP50D	200	5.0	150	5.0	5.0	1.25	50	EGP50D
EGP50G	400	5.0	150	5.0	5.0	1.25	50	EGP50G

5.0 AMPERE / DO-201AD (DO-27) / Halogen-free Superex II

 **PATENTED**

EGP50DH	200	5.0	150	5.0	5.0	1.25	50	EGP50D.
EGP50GH	400	5.0	150	5.0	5.0	1.25	50	EGP50G.

SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @ 8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

10 AMPERE / TO-220AB

EGZ10DCT	200	10	125	5.0	5.0	1.00	50	EGZ10DCT
EGZ10GCT	400	10	125	5.0	5.0	1.25	50	EGZ10GCT
EGZ10JCT	600	10	125	5.0	5.0	1.70	75	EGZ10JCT



10 AMPERE / TO-220AB / Halogen-free

EGZ10DCTH	200	10	125	5.0	5.0	1.00	50	EGZ10DCTH
EGZ10GCTH	400	10	125	5.0	5.0	1.25	50	EGZ10GCTH
EGZ10JCTH	600	10	125	5.0	5.0	1.70	75	EGZ10JCTH



10 AMPERE / ITO-220AB

EGZ10DCF	200	10	125	5.0	5.0	1.00	50	EGZ10DCF
EGZ10GCF	400	10	125	5.0	5.0	1.25	50	EGZ10GCF
EGZ10JCF	600	10	125	5.0	5.0	1.70	75	EGZ10JCF



10 AMPERE / ITO-220AB / Halogen-free

EGZ10DCFH	200	10	125	5.0	5.0	1.00	50	EGZ10DCFH
EGZ10GCFH	400	10	125	5.0	5.0	1.25	50	EGZ10GCFH
EGZ10JCFH	600	10	125	5.0	5.0	1.70	75	EGZ10JCFH



12 AMPERE / TO-220AB

EGZ12DCT	200	12	125	5.0	6.0	1.00	50	EGZ12DCT
EGZ12GCT	400	12	125	5.0	6.0	1.25	50	EGZ12GCT
EGZ12JCT	600	12	125	5.0	6.0	1.70	75	EGZ12JCT



12 AMPERE / TO-220AB / Halogen-free

EGZ12DCTH	200	12	125	5.0	6.0	1.00	50	EGZ12DCTH
EGZ12GCTH	400	12	125	5.0	6.0	1.25	50	EGZ12GCTH
EGZ12JCTH	600	12	125	5.0	6.0	1.70	75	EGZ12JCTH



12 AMPERE / ITO-220AB

EGZ12DCF	200	12	125	5.0	6.0	1.00	50	EGZ12DCF
EGZ12GCF	400	12	125	5.0	6.0	1.25	50	EGZ12GCF
EGZ12JCF	600	12	125	5.0	6.0	1.70	75	EGZ12JCF



12 AMPERE / ITO-220AB / Halogen-free

EGZ12DCFH	200	12	125	5.0	6.0	1.00	50	EGZ12DCFH
EGZ12GCFH	400	12	125	5.0	6.0	1.25	50	EGZ12GCFH
EGZ12JCFH	600	12	125	5.0	6.0	1.70	75	EGZ12JCFH



NOTE : CKT connection of TO-220AB



SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENCY RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C TA	Max. Forward Voltage @ 25°C TA		Reverse Recovery Time	Marking
	VRRM	Io	IFSM (Surge)	IR	IF	VF	TRR @RG1	
	V	A	A	uA	A	V	nS	

16 AMPERE / TO-220AB

EGZ16DCT	200	16	125	5.0	8.0	1.00	50	EGZ16DCT
EGZ16GCT	400	16	125	5.0	8.0	1.25	50	EGZ16GCT
EGZ16JCT	600	16	125	5.0	8.0	1.70	75	EGZ16JCT

16 AMPERE / TO-220AB / Halogen-free

EGZ16DCTH	200	16	125	5.0	8.0	1.00	50	EGZ16DCTH
EGZ16GCTH	400	16	125	5.0	8.0	1.25	50	EGZ16GCTH
EGZ16JCTH	600	16	125	5.0	8.0	1.70	75	EGZ16JCTH

16 AMPERE / ITO-220AB

EGZ16DCF	200	16	125	5.0	8.0	1.00	50	EGZ16DCF
EGZ16GCF	400	16	125	5.0	8.0	1.25	50	EGZ16GCF
EGZ16JCF	600	16	125	5.0	8.0	1.70	75	EGZ16JCF

16 AMPERE / ITO-220AB / Halogen-free

EGZ16DCFH	200	16	125	5.0	8.0	1.00	50	EGZ16DCFH
EGZ16GCFH	400	16	125	5.0	8.0	1.25	50	EGZ16GCFH
EGZ16JCFH	600	16	125	5.0	8.0	1.70	75	EGZ16JCFH

20 AMPERE / TO-220AB

EGZ20DCT	200	20	150	5.0	10.0	1.00	50	EGZ20DCT
EGZ20GCT	400	20	150	5.0	10.0	1.25	50	EGZ20GCT
EGZ20JCT	600	20	150	5.0	10.0	1.70	75	EGZ20JCT

20 AMPERE / TO-220AB / Halogen-free

EGZ20DCTH	200	20	150	5.0	10.0	1.00	50	EGZ20DCTH
EGZ20GCTH	400	20	150	5.0	10.0	1.25	50	EGZ20GCTH
EGZ20JCTH	600	20	150	5.0	10.0	1.70	75	EGZ20JCTH

20 AMPERE / ITO-220AB

EGZ20DCF	200	20	150	5.0	10.0	1.00	50	EGZ20DCF
EGZ20GCF	400	20	150	5.0	10.0	1.25	50	EGZ20GCF
EGZ20JCF	600	20	150	5.0	10.0	1.70	75	EGZ20JCF

20 AMPERE / ITO-220AB / Halogen-free

EGZ20DCFH	200	20	150	5.0	10.0	1.00	50	EGZ20DCFH
EGZ20GCFH	400	20	150	5.0	10.0	1.25	50	EGZ20GCFH
EGZ20JCFH	600	20	150	5.0	10.0	1.70	75	EGZ20JCFH

NOTE : CKT connection of TO-220AB



SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

0.8 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

SUGC08KH	800	0.8	15	5.0	0.8	2.50	35	08 UK.
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1.0 AMPERE / 1206-S (Equivalent to SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

SUGC10DH	200	1.0	15	5.0	1.0	0.96	35	10 UD.
SUGC10GH	400	1.0	15	5.0	1.0	1.30	35	10 UG.
SUGC10JH	600	1.0	15	5.0	1.0	1.70	35	10 UJ.
SUGC10KH	800	1.0	15	5.0	1.0	2.50	35	10 UK.

1.0 AMPERE / 1206 (Equivalent to SOD-87, GL1M, SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

BYD77ZDH	200	1.0	30	1.0	1.0	1.00	50	77 ZD.
BYD77ZGH	400	1.0	30	1.0	1.0	1.00	50	77 ZG.

1.0 AMPERE / 1206 (Equivalent to SOD-87, GL1M, SOD-123) / Halogen-free Superchip Superex II

 **PATENTED**

BYD127ZH	200	1.0	30	2.0	1.0	0.96	35	127 Z.
BYD147ZH	400	1.0	30	5.0	1.0	1.30	35	147 Z.
BYD167ZH	600	1.0	25	5.0	1.0	1.70	35	167 Z.
BYD187ZH	800	1.0	25	5.0	1.0	2.50	35	187 Z.

1.0 AMPERE / 1010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II

 **PATENTED**

UGC10DH	200	1.0	30	5.0	1.0	0.95	35	UGC 10D.
UGC10GH	400	1.0	30	5.0	1.0	1.25	35	UGC 10G.
UGC10JH	600	1.0	25	5.0	1.0	1.70	35	UGC 10J.
UGC10KH	800	1.0	25	5.0	1.0	2.20	35	UGC 10K.

1.0 AMPERE / R-1 Superex II

 **PATENTED**

UG110D	200	1.0	25	5.0	1.0	0.95	35	U1D
UG110G	400	1.0	25	5.0	1.0	1.25	35	U1G
UG110J	600	1.0	25	5.0	1.0	1.70	35	U1J
UG110K	800	1.0	25	5.0	1.0	2.20	35	U1K

1.0 AMPERE / DO-204AL (DO-41) Superex II

 **PATENTED**

UGP10D	200	1.0	30	5.0	1.0	0.95	35	UGP10D
UGP10G	400	1.0	30	5.0	1.0	1.25	35	UGP10G
UGP10J	600	1.0	25	5.0	1.0	1.70	35	UGP10J
UGP10K	800	1.0	25	5.0	1.0	2.20	35	UGP10K

SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

1.0 AMPERE / DO-204AL (DO-41) / Halogen-free Superex II



PATENTED

UGP10DH	200	1.0	30	5.0	1.0	0.95	35	UGP10D.
UGP10GH	400	1.0	30	5.0	1.0	1.25	35	UGP10G.
UGP10JH	600	1.0	25	5.0	1.0	1.70	35	UGP10J.
UGP10KH	800	1.0	25	5.0	1.0	2.20	35	UGP10K.

1.0 AMPERE / DO-214AC (SMA) Superex II



PATENTED

UGF10D	200	1.0	30	5.0	1.0	0.95	35	U10D
UGF10G	400	1.0	30	5.0	1.0	1.25	35	U10G
UGF10J	600	1.0	25	5.0	1.0	1.70	35	U10J
UGF10K	800	1.0	25	5.0	1.0	2.20	35	U10K

1.0 AMPERE / DO-214AC (SMA) / Halogen-free Superex II



PATENTED

UGF10DH	200	1.0	30	5.0	1.0	0.95	35	U10D.
UGF10GH	400	1.0	30	5.0	1.0	1.25	35	U10G.
UGF10JH	600	1.0	25	5.0	1.0	1.70	35	U10J.
UGF10KH	800	1.0	25	5.0	1.0	2.20	35	U10K.

2.0 AMPERE / 2010 (Equivalent to DO-214AC / SMA) / Halogen-free Superchip Superex II



PATENTED

UGC20DH	200	2.0	50	5.0	2.0	0.95	35	UGC 20D.
UGC20GH	400	2.0	50	5.0	2.0	1.25	35	UGC 20G.
UGC20JH	600	2.0	50	5.0	2.0	1.70	35	UGC 20J.
UGC20KH	800	2.0	50	5.0	2.0	2.20	35	UGC 20K.

2.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



PATENTED

BUGC20DH	200	2.0	50	5.0	2.0	0.95	35	BUGC 20D.
BUGC20GH	400	2.0	50	5.0	2.0	1.25	35	BUGC 20G.
BUGC20JH	600	2.0	50	5.0	2.0	1.70	35	BUGC 20J.
BUGC20KH	800	2.0	50	5.0	2.0	2.20	35	BUGC 20K.

2.0 AMPERE / DO-204AC (DO-15) Superex II



PATENTED

UGP20D	200	2.0	65	5.0	2.0	0.95	35	UGP20D
UGP20G	400	2.0	65	5.0	2.0	1.25	35	UGP20G
UGP20J	600	2.0	60	5.0	2.0	1.70	35	UGP20J
UGP20K	800	2.0	60	5.0	2.0	2.20	35	UGP20K

SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

2.0 AMPERE / DO-204AC (DO-15) / Halogen-free Superex II



PATENTED

UGP20DH	200	2.0	65	5.0	2.0	0.95	35	UGP20D.
UGP20GH	400	2.0	65	5.0	2.0	1.25	35	UGP20G.
UGP20JH	600	2.0	60	5.0	2.0	1.70	35	UGP20J.
UGP20KH	800	2.0	60	5.0	2.0	2.20	35	UGP20K.

2.0 AMPERE / DO-214AA (SMB) Superex II



PATENTED

UGF20D	200	2.0	65	5.0	2.0	0.95	35	U20D
UGF20G	400	2.0	65	5.0	2.0	1.25	35	U20G
UGF20J	600	2.0	60	5.0	2.0	1.70	35	U20J
UGF20K	800	2.0	60	5.0	2.0	2.20	35	U20K

2.0 AMPERE / DO-214AA (SMB) / Halogen-free Superex II



PATENTED

UGF20DH	200	2.0	65	5.0	2.0	0.95	35	U20D.
UGF20GH	400	2.0	65	5.0	2.0	1.25	35	U20G.
UGF20JH	600	2.0	60	5.0	2.0	1.70	35	U20J.
UGF20KH	800	2.0	60	5.0	2.0	2.20	35	U20K.

3.0 AMPERE / 2114 (Equivalent to DO-214AA / SMB) / Halogen-free Superchip Superex II



PATENTED

BUGC30DH	200	3.0	90	5.0	3.0	0.95	35	BUGC 30D.
BUGC30GH	400	3.0	90	5.0	3.0	1.25	35	BUGC 30G.
BUGC30JH	600	3.0	90	5.0	3.0	1.70	35	BUGC 30J.
BUGC30KH	800	3.0	90	5.0	3.0	2.20	35	BUGC 30K.

3.0 AMPERE / DO-201AD (DO-27) Superex II



PATENTED

UGP30D	200	3.0	125	5.0	3.0	0.95	35	UGP30D
UGP30G	400	3.0	125	5.0	3.0	1.25	35	UGP30G
UGP30J	600	3.0	115	5.0	3.0	1.70	35	UGP30J
UGP30K	800	3.0	115	5.0	3.0	2.20	35	UGP30K

3.0 AMPERE / DO-201AD (DO-27) / Halogen-free Superex II



PATENTED

UGP30DH	200	3.0	125	5.0	3.0	0.95	35	UGP30D.
UGP30GH	400	3.0	125	5.0	3.0	1.25	35	UGP30G.
UGP30JH	600	3.0	115	5.0	3.0	1.70	35	UGP30J.
UGP30KH	800	3.0	115	5.0	3.0	2.20	35	UGP30K.

SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

3.0 AMPERE / DO-214AA (SMB) Suprex II



UGF30D	200	3.0	115	5.0	3.0	0.95	35	U30D
UGF30G	400	3.0	115	5.0	3.0	1.25	35	U30G
UGF30J	600	3.0	105	5.0	3.0	1.70	35	U30J
UGF30K	800	3.0	105	5.0	3.0	2.20	35	U30K

3.0 AMPERE / DO-214AA (SMB) / Halogen-free Suprex II



UGF30DH	200	3.0	115	5.0	3.0	0.95	35	U30D.
UGF30GH	400	3.0	115	5.0	3.0	1.25	35	U30G.
UGF30JH	600	3.0	105	5.0	3.0	1.70	35	U30J.
UGF30KH	800	3.0	105	5.0	3.0	2.20	35	U30K.

4.0 AMPERE / DO-201AD (DO-27) Suprex II



MUR420	200	4.0	150	10.0	4.0	1.28	50	MUR420
MUR460	600	4.0	150	10.0	4.0	1.28	50	MUR460

4.0 AMPERE / DO-201AD (DO-27) / Halogen-free Suprex II



MUR420H	200	4.0	150	10.0	4.0	1.28	50	MUR420.
MUR460H	600	4.0	150	10.0	4.0	1.28	50	MUR460.

5.0 AMPERE / DO-201AD (DO-27) Suprex II



UGP50D	200	5.0	150	5.0	5.0	1.10	35	UGP50D
UGP50G	400	5.0	150	5.0	5.0	1.25	35	UGP50G
UGP50J	600	5.0	150	5.0	5.0	1.70	35	UGP50J

5.0 AMPERE / DO-201AD (DO-27) / Halogen-free Suprex II



UGP50DH	200	5.0	150	5.0	5.0	1.10	35	UGP50D.
UGP50GH	400	5.0	150	5.0	5.0	1.25	35	UGP50G.
UGP50JH	600	5.0	150	5.0	5.0	1.70	35	UGP50J.

SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

6.0 AMPERE / TO-220AC

UGZ6DT	200	6.0	90	5.0	6.0	1.10	35	UGZ6DT
UGZ6GT	400	6.0	90	5.0	6.0	1.30	35	UGZ6GT
UGZ6JT	600	6.0	90	5.0	6.0	1.70	35	UGZ6JT



6.0 AMPERE / TO-220AC / Halogen-free

UGZ6DTH	200	6.0	90	5.0	6.0	1.10	35	UGZ6DTH
UGZ6GTH	400	6.0	90	5.0	6.0	1.30	35	UGZ6GTH
UGZ6JTH	600	6.0	90	5.0	6.0	1.70	35	UGZ6JTH



6.0 AMPERE / ITO-220AC

UGZ6DF	200	6.0	90	5.0	6.0	1.10	35	UGZ6DF
UGZ6GF	400	6.0	90	5.0	6.0	1.30	35	UGZ6GF
UGZ6JF	600	6.0	90	5.0	6.0	1.70	35	UGZ6JF



6.0 AMPERE / ITO-220AC / Halogen-free

UGZ6DFH	200	6.0	90	5.0	6.0	1.10	35	UGZ6DFH
UGZ6GFH	400	6.0	90	5.0	6.0	1.30	35	UGZ6GFH
UGZ6JFH	600	6.0	90	5.0	6.0	1.70	35	UGZ6JFH



8.0 AMPERE / TO-220AC

UGZ8DT	200	8.0	125	5.0	8.0	1.10	35	UGZ8DT
UGZ8GT	400	8.0	125	5.0	8.0	1.30	35	UGZ8GT
UGZ8JT	600	8.0	125	5.0	8.0	1.70	35	UGZ8JT



8.0 AMPERE / TO-220AC / Halogen-free

UGZ8DTH	200	8.0	125	5.0	8.0	1.10	35	UGZ8DTH
UGZ8GTH	400	8.0	125	5.0	8.0	1.30	35	UGZ8GTH
UGZ8JTH	600	8.0	125	5.0	8.0	1.70	35	UGZ8JTH



NOTE : CKT connection of TO-220AC



SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

8.0 AMPERE / ITO-220AC



UGZ8DF	200	8.0	125	5.0	8.0	1.10	35	UGZ8DF
UGZ8GF	400	8.0	125	5.0	8.0	1.30	35	UGZ8GF
UGZ8JF	600	8.0	125	5.0	8.0	1.70	35	UGZ8JF

8.0 AMPERE / ITO-220AC / Halogen-free



UGZ8DFH	200	8.0	125	5.0	8.0	1.10	35	UGZ8DFH
UGZ8GFH	400	8.0	125	5.0	8.0	1.30	35	UGZ8GFH
UGZ8JFH	600	8.0	125	5.0	8.0	1.70	35	UGZ8JFH

10 AMPERE / TO-220AC



UGZ10DT	200	10	150	5.0	10.0	1.10	35	UGZ10DT
UGZ10GT	400	10	150	5.0	10.0	1.30	35	UGZ10GT
UGZ10JT	600	10	150	5.0	10.0	1.70	35	UGZ10JT

10 AMPERE / TO-220AC / Halogen-free



UGZ10DTH	200	10	150	5.0	10.0	1.10	35	UGZ10DTH
UGZ10GTH	400	10	150	5.0	10.0	1.30	35	UGZ10GTH
UGZ10JTH	600	10	150	5.0	10.0	1.70	35	UGZ10JTH

10 AMPERE / ITO-220AC



UGZ10DF	200	10	150	5.0	10.0	1.10	35	UGZ10DF
UGZ10GF	400	10	150	5.0	10.0	1.30	35	UGZ10GF
UGZ10JF	600	10	150	5.0	10.0	1.70	35	UGZ10JF

10 AMPERE / ITO-220AC / Halogen-free



UGZ10DFH	200	10	150	5.0	10.0	1.10	35	UGZ10DFH
UGZ10GFH	400	10	150	5.0	10.0	1.30	35	UGZ10GFH
UGZ10JFH	600	10	150	5.0	10.0	1.70	35	UGZ10JFH

NOTE : CKT connection of TO-220AC



SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

10 AMPERE / TO-220AB



UGZ10DCT	200	10	125	5.0	5.0	1.10	35	UGZ10DCT
UGZ10GCT	400	10	125	5.0	5.0	1.30	35	UGZ10GCT
UGZ10JCT	600	10	125	5.0	5.0	1.70	35	UGZ10JCT

10 AMPERE / TO-220AB / Halogen-free



UGZ10DCTH	200	10	125	5.0	5.0	1.10	35	UGZ10DCTH
UGZ10GCTH	400	10	125	5.0	5.0	1.30	35	UGZ10GCTH
UGZ10JCTH	600	10	125	5.0	5.0	1.70	35	UGZ10JCTH

10 AMPERE / ITO-220AB



UGZ10DCF	200	10	125	5.0	5.0	1.10	35	UGZ10DCF
UGZ10GCF	400	10	125	5.0	5.0	1.30	35	UGZ10GCF
UGZ10JCF	600	10	125	5.0	5.0	1.70	35	UGZ10JCF

10 AMPERE / ITO-220AB / Halogen-free



UGZ10DCFH	200	10	125	5.0	5.0	1.10	35	UGZ10DCFH
UGZ10GCFH	400	10	125	5.0	5.0	1.30	35	UGZ10GCFH
UGZ10JCFH	600	10	125	5.0	5.0	1.70	35	UGZ10JCFH

16 AMPERE / TO-220AB



UGZ16DCT	200	16	150	5.0	8.0	1.10	35	UGZ16DCT
UGZ16GCT	400	16	125	5.0	8.0	1.30	35	UGZ16GCT
UGZ16JCT	600	16	125	5.0	8.0	1.70	35	UGZ16JCT

16 AMPERE / TO-220AB / Halogen-free



UGZ16DCTH	200	16	150	5.0	8.0	1.10	35	UGZ16DCTH
UGZ16GCTH	400	16	125	5.0	8.0	1.30	35	UGZ16GCTH
UGZ16JCTH	600	16	125	5.0	8.0	1.70	35	UGZ16JCTH

NOTE : CKT connection of TO-220AB



SINTERED GLASS PASSIVATED JUNCTION ULTRAFAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

16 AMPERE / ITO-220AB



UGZ16DCF	200	16	150	5.0	8.0	1.10	35	UGZ16DCF
UGZ16GCF	400	16	125	5.0	8.0	1.30	35	UGZ16GCF
UGZ16JCF	600	16	125	5.0	8.0	1.70	35	UGZ16JCF

16 AMPERE / ITO-220AB / Halogen-free



UGZ16DCFH	200	16	150	5.0	8.0	1.10	35	UGZ16DCFH
UGZ16GCFH	400	16	125	5.0	8.0	1.30	35	UGZ16GCFH
UGZ16JCFH	600	16	125	5.0	8.0	1.70	35	UGZ16JCFH

20 AMPERE / TO-220AB



UGZ20DCT	200	20	150	5.0	10.0	1.10	35	UGZ20DCT
UGZ20GCT	400	20	125	5.0	10.0	1.30	35	UGZ20GCT
UGZ20JCT	600	20	125	5.0	10.0	1.70	35	UGZ20JCT

20 AMPERE / TO-220AB / Halogen-free



UGZ20DCTH	200	20	150	5.0	10.0	1.10	35	UGZ20DCTH
UGZ20GCTH	400	20	125	5.0	10.0	1.30	35	UGZ20GCTH
UGZ20JCTH	600	20	125	5.0	10.0	1.70	35	UGZ20JCTH

20 AMPERE / ITO-220AB



UGZ20DCF	200	20	150	5.0	10.0	1.10	35	UGZ20DCF
UGZ20GCF	400	20	125	5.0	10.0	1.30	35	UGZ20GCF
UGZ20JCF	600	20	125	5.0	10.0	1.70	35	UGZ20JCF

20 AMPERE / ITO-220AB / Halogen-free



UGZ20DCFH	200	20	150	5.0	10.0	1.10	35	UGZ20DCFH
UGZ20GCFH	400	20	125	5.0	10.0	1.30	35	UGZ20GCFH
UGZ20JCFH	600	20	125	5.0	10.0	1.70	35	UGZ20JCFH

NOTE : CKT connection of TO-220AB



SINTERED GLASS PASSIVATED JUNCTION HYPER FAST RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Typ. Reverse Recovery Time	Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR} @RG1	
	V	A	A	uA	A	V	nS	

8 AMPERE / TO-220AC



SGZ8JT *	600	8.0	100	5.0	8.0	2.0	23	SGZ8JT
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8 AMPERE / TO-220AC / Halogen-free



SGZ8JTH *	600	8.0	100	5.0	8.0	2.0	23	SGZ8JTH
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8 AMPERE / ITO-220AC



SGZ8JF *	600	8.0	100	5.0	8.0	2.0	23	SGZ8JF
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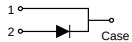
8 AMPERE / ITO-220AC / Halogen-free



SGZ8JFH *	600	8.0	100	5.0	8.0	2.0	23	SGZ8JFH
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NOTE : " * " The objective specification for product development, spec is subject to change, please contact ZOWIE for updated status.

CKT connection of TO-220AC



MINI BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	



LUX-Bridge™

0.8 AMPERE / MBCN / Halogen-free

Ultra Mini Bridge



LX08MS	1000	0.8	20	5.0	0.4	1.00	M
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0.8 AMPERE / MBC / Halogen-free

Superchip Superex II



PATENTED

MBC08JH	600	0.8	30	5.0	0.4	0.90	MBC 08J.
MBC08KH	800	0.8	30	5.0	0.4	0.90	MBC 08K.
MBC08MH	1000	0.8	30	5.0	0.4	0.90	MBC 08M.



LUX-Bridge™

1.0 AMPERE / MBCN / Halogen-free

Ultra Mini Bridge



LX10M	1000	1.0	30	5.0	0.4	1.00	M
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1.0 AMPERE / MBC / Halogen-free

Superchip Superex II



PATENTED

MBC10JH	600	1.0	30	5.0	1.0	1.00	MBC 10J.
MBC10KH	800	1.0	30	5.0	1.0	1.00	MBC 10K.
MBC10MH	1000	1.0	30	5.0	1.0	1.00	MBC 10M.

1.0 AMPERE / MBCR / Halogen-free

Superchip Superex II



PATENTED

MBCR10JH	600	1.0	30	5.0	1.0	1.00	MBCR 10J.
MBCR10JLH	600	1.0	45	5.0	1.0	0.95	MBCR 10JL.
MBCR10KH	800	1.0	30	5.0	1.0	1.00	MBCR 10K.
MBCR10KLH	800	1.0	45	5.0	1.0	0.95	MBCR 10KL.
MBCR10MH	1000	1.0	30	5.0	1.0	1.00	MBCR 10M.
MBCR10MLH	1000	1.0	45	5.0	1.0	0.95	MBCR 10ML.

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	



1.0 AMPERE / DFM

DF02	200	1.0	30	5.0	1.0	1.10	DF02
DF04	400	1.0	30	5.0	1.0	1.10	DF04
DF06	600	1.0	30	5.0	1.0	1.10	DF06
DF08	800	1.0	30	5.0	1.0	1.10	DF08
DF10	1000	1.0	30	5.0	1.0	1.10	DF10



1.0 AMPERE / DFM / Halogen-free

DF02H	200	1.0	30	5.0	1.0	1.10	DF02.
DF04H	400	1.0	30	5.0	1.0	1.10	DF04.
DF06H	600	1.0	30	5.0	1.0	1.10	DF06.
DF08H	800	1.0	30	5.0	1.0	1.10	DF08.
DF10H	1000	1.0	30	5.0	1.0	1.10	DF10.



1.0 AMPERE / DFS

DF02S	200	1.0	30	5.0	1.0	1.10	DF02S
DF04S	400	1.0	30	5.0	1.0	1.10	DF04S
DF06S	600	1.0	30	5.0	1.0	1.10	DF06S
DF08S	800	1.0	30	5.0	1.0	1.10	DF08S
DF10S	1000	1.0	30	5.0	1.0	1.10	DF10S



1.0 AMPERE / DFS / Halogen-free

DF02SH	200	1.0	30	5.0	1.0	1.10	DF02S.
DF04SH	400	1.0	30	5.0	1.0	1.10	DF04S.
DF06SH	600	1.0	30	5.0	1.0	1.10	DF06S.
DF08SH	800	1.0	30	5.0	1.0	1.10	DF08S.
DF10SH	1000	1.0	30	5.0	1.0	1.10	DF10S.



1.5 AMPERE / DFM

DF1502	200	1.5	50	5.0	1.5	1.10	DF1502
DF1504	400	1.5	50	5.0	1.5	1.10	DF1504
DF1506	600	1.5	50	5.0	1.5	1.10	DF1506
DF1508	800	1.5	50	5.0	1.5	1.10	DF1508
DF1510	1000	1.5	50	5.0	1.5	1.10	DF1510



1.5 AMPERE / DFM / Halogen-free

DF1502H	200	1.5	50	5.0	1.5	1.10	DF1502.
DF1504H	400	1.5	50	5.0	1.5	1.10	DF1504.
DF1506H	600	1.5	50	5.0	1.5	1.10	DF1506.
DF1508H	800	1.5	50	5.0	1.5	1.10	DF1508.
DF1510H	1000	1.5	50	5.0	1.5	1.10	DF1510.

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

1.5 AMPERE / DFS

DF1502S	200	1.5	50	5.0	1.5	1.10	DF1502S
DF1504S	400	1.5	50	5.0	1.5	1.10	DF1504S
DF1506S	600	1.5	50	5.0	1.5	1.10	DF1506S
DF1508S	800	1.5	50	5.0	1.5	1.10	DF1508S
DF1510S	1000	1.5	50	5.0	1.5	1.10	DF1510S



1.5 AMPERE / DFS / Halogen-free

DF1502SH	200	1.5	50	5.0	1.5	1.10	DF1502S.
DF1504SH	400	1.5	50	5.0	1.5	1.10	DF1504S.
DF1506SH	600	1.5	50	5.0	1.5	1.10	DF1506S.
DF1508SH	800	1.5	50	5.0	1.5	1.10	DF1508S.
DF1510SH	1000	1.5	50	5.0	1.5	1.10	DF1510S.



2.0 AMPERE / GBP

GBP202	200	2.0	60	5.0	2.0	1.10	GBP202
GBP204	400	2.0	60	5.0	2.0	1.10	GBP204
GBP206	600	2.0	60	5.0	2.0	1.10	GBP206
GBP208	800	2.0	60	5.0	2.0	1.10	GBP208
GBP210	1000	2.0	60	5.0	2.0	1.10	GBP210



2.0 AMPERE / GBP / Halogen-free

GBP202H	200	2.0	60	5.0	2.0	1.10	GBP202.
GBP204H	400	2.0	60	5.0	2.0	1.10	GBP204.
GBP206H	600	2.0	60	5.0	2.0	1.10	GBP206.
GBP208H	800	2.0	60	5.0	2.0	1.10	GBP208.
GBP210H	1000	2.0	60	5.0	2.0	1.10	GBP210.



4.0 AMPERE / KBJ

KBJ4D	200	4.0	120	5.0	2.0	1.00	KBJ4D
KBJ4G	400	4.0	120	5.0	2.0	1.00	KBJ4G
KBJ4J	600	4.0	120	5.0	2.0	1.00	KBJ4J
KBJ4K	800	4.0	120	5.0	2.0	1.00	KBJ4K
KBJ4M	1000	4.0	120	5.0	2.0	1.00	KBJ4M



4.0 AMPERE / KBJ / Halogen-free

KBJ4DH	200	4.0	120	5.0	2.0	1.00	KBJ4D.
KBJ4GH	400	4.0	120	5.0	2.0	1.00	KBJ4G.
KBJ4JH	600	4.0	120	5.0	2.0	1.00	KBJ4J.
KBJ4KH	800	4.0	120	5.0	2.0	1.00	KBJ4K.
KBJ4MH	1000	4.0	120	5.0	2.0	1.00	KBJ4M.



SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	



4.0 AMPERE / KBL

KBL02	200	4.0	125	5.0	2.0	1.10	KBL02
KBL04	400	4.0	125	5.0	2.0	1.10	KBL04
KBL06	600	4.0	125	5.0	2.0	1.10	KBL06
KBL08	800	4.0	125	5.0	2.0	1.10	KBL08
KBL10	1000	4.0	125	5.0	2.0	1.10	KBL10



4.0 AMPERE / KBL / Halogen-free

KBL02H	200	4.0	125	5.0	2.0	1.10	KBL02.
KBL04H	400	4.0	125	5.0	2.0	1.10	KBL04.
KBL06H	600	4.0	125	5.0	2.0	1.10	KBL06.
KBL08H	800	4.0	125	5.0	2.0	1.10	KBL08.
KBL10H	1000	4.0	125	5.0	2.0	1.10	KBL10.



4.0 AMPERE / GBL

GBL02	200	4.0	150	5.0	2.0	1.00	GBL02
GBL04	400	4.0	150	5.0	2.0	1.00	GBL04
GBL06	600	4.0	150	5.0	2.0	1.00	GBL06
GBL08	800	4.0	150	5.0	2.0	1.00	GBL08
GBL10	1000	4.0	150	5.0	2.0	1.00	GBL10



4.0 AMPERE / GBL / Halogen-free

GBL02H	200	4.0	150	5.0	2.0	1.00	GBL02.
GBL04H	400	4.0	150	5.0	2.0	1.00	GBL04.
GBL06H	600	4.0	150	5.0	2.0	1.00	GBL06.
GBL08H	800	4.0	150	5.0	2.0	1.00	GBL08.
GBL10H	1000	4.0	150	5.0	2.0	1.00	GBL10.

NEW Low VF

4.0 AMPERE / GBL-LS Superex II

GBL02LS	200	4.0	160	5.0	2.0	0.89	GBL02 LS
GBL04LS	400	4.0	160	5.0	2.0	0.89	GBL04 LS
GBL06LS	600	4.0	160	5.0	2.0	0.89	GBL06 LS
GBL08LS	800	4.0	135	5.0	2.0	0.90	GBL08 LS
GBL10LS	1000	4.0	135	5.0	2.0	0.90	GBL10 LS



PATENTED

4.0 AMPERE / GBU

GBU402	200	4.0	150	5.0	2.0	1.00	GBU402
GBU404	400	4.0	150	5.0	2.0	1.00	GBU404
GBU406	600	4.0	150	5.0	2.0	1.00	GBU406
GBU408	800	4.0	150	5.0	2.0	1.00	GBU408
GBU410	1000	4.0	150	5.0	2.0	1.00	GBU410



SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

4.0 AMPERE / GBU / Halogen-free

GBU402H	200	4.0	150	5.0	2.0	1.00	GBU402.
GBU404H	400	4.0	150	5.0	2.0	1.00	GBU404.
GBU406H	600	4.0	150	5.0	2.0	1.00	GBU406.
GBU408H	800	4.0	150	5.0	2.0	1.00	GBU408.
GBU410H	1000	4.0	150	5.0	2.0	1.00	GBU410.

NEW Low VF

4.0 AMPERE / GBU-LC Superex II

GBU402LC	200	4.0	160	5.0	2.0	0.89	GBU402 LC
GBU404LC	400	4.0	160	5.0	2.0	0.89	GBU404 LC
GBU406LC	600	4.0	160	5.0	2.0	0.89	GBU406 LC
GBU408LC	800	4.0	135	5.0	2.0	0.90	GBU408 LC
GBU410LC	1000	4.0	135	5.0	2.0	0.90	GBU410 LC

6.0 AMPERE / KBJ

KBJ6D	200	6.0	170	5.0	3.0	1.00	KBJ6D
KBJ6G	400	6.0	170	5.0	3.0	1.00	KBJ6G
KBJ6J	600	6.0	170	5.0	3.0	1.00	KBJ6J
KBJ6K	800	6.0	170	5.0	3.0	1.00	KBJ6K
KBJ6M	1000	6.0	170	5.0	3.0	1.00	KBJ6M

6.0 AMPERE / KBJ / Halogen-free

KBJ6DH	200	6.0	170	5.0	3.0	1.00	KBJ6D.
KBJ6GH	400	6.0	170	5.0	3.0	1.00	KBJ6G.
KBJ6JH	600	6.0	170	5.0	3.0	1.00	KBJ6J.
KBJ6KH	800	6.0	170	5.0	3.0	1.00	KBJ6K.
KBJ6MH	1000	6.0	170	5.0	3.0	1.00	KBJ6M.

6.0 AMPERE / GBU

GBU602	200	6.0	175	5.0	3.0	1.00	GBU602
GBU604	400	6.0	175	5.0	3.0	1.00	GBU604
GBU606	600	6.0	175	5.0	3.0	1.00	GBU606
GBU608	800	6.0	175	5.0	3.0	1.00	GBU608
GBU610	1000	6.0	175	5.0	3.0	1.00	GBU610

6.0 AMPERE / GBU / Halogen-free

GBU602H	200	6.0	175	5.0	3.0	1.00	GBU602.
GBU604H	400	6.0	175	5.0	3.0	1.00	GBU604.
GBU606H	600	6.0	175	5.0	3.0	1.00	GBU606.
GBU608H	800	6.0	175	5.0	3.0	1.00	GBU608.
GBU610H	1000	6.0	175	5.0	3.0	1.00	GBU610.

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	μA	A	V	

NEW Low VF

6.0 AMPERE / GBU-LC Suprex II



PATENTED

GBU602LC	200	6.0	200	5.0	3.0	0.89	GBU602 LC
GBU604LC	400	6.0	200	5.0	3.0	0.89	GBU604 LC
GBU606LC	600	6.0	200	5.0	3.0	0.89	GBU606 LC
GBU608LC	800	6.0	175	5.0	3.0	0.90	GBU608 LC
GBU610LC	1000	6.0	175	5.0	3.0	0.90	GBU610 LC

8.0 AMPERE / GBJ



GBJ8D	200	8.0	170	5.0	4.0	1.00	GBJ8D
GBJ8G	400	8.0	170	5.0	4.0	1.00	GBJ8G
GBJ8J	600	8.0	170	5.0	4.0	1.00	GBJ8J
GBJ8K	800	8.0	170	5.0	4.0	1.00	GBJ8K
GBJ8M	1000	8.0	170	5.0	4.0	1.00	GBJ8M

8.0 AMPERE / GBJ / Halogen-free



GBJ8DH	200	8.0	170	5.0	4.0	1.00	GBJ8D.
GBJ8GH	400	8.0	170	5.0	4.0	1.00	GBJ8G.
GBJ8JH	600	8.0	170	5.0	4.0	1.00	GBJ8J.
GBJ8KH	800	8.0	170	5.0	4.0	1.00	GBJ8K.
GBJ8MH	1000	8.0	170	5.0	4.0	1.00	GBJ8M.

8.0 AMPERE / GBU



GBU802	200	8.0	200	5.0	4.0	1.00	GBU802
GBU804	400	8.0	200	5.0	4.0	1.00	GBU804
GBU806	600	8.0	200	5.0	4.0	1.00	GBU806
GBU808	800	8.0	200	5.0	4.0	1.00	GBU808
GBU810	1000	8.0	200	5.0	4.0	1.00	GBU810

8.0 AMPERE / GBU / Halogen-free



GBU802H	200	8.0	200	5.0	4.0	1.00	GBU802.
GBU804H	400	8.0	200	5.0	4.0	1.00	GBU804.
GBU806H	600	8.0	200	5.0	4.0	1.00	GBU806.
GBU808H	800	8.0	200	5.0	4.0	1.00	GBU808.
GBU810H	1000	8.0	200	5.0	4.0	1.00	GBU810.

NEW Low VF

8.0 AMPERE / GBU-LC Suprex II



PATENTED

GBU802LC	200	8.0	200	5.0	4.0	0.91	GBU802 LC
GBU804LC	400	8.0	200	5.0	4.0	0.91	GBU804 LC
GBU806LC	600	8.0	200	5.0	4.0	0.91	GBU806 LC
GBU808LC	800	8.0	175	5.0	4.0	0.92	GBU808 LC
GBU810LC	1000	8.0	175	5.0	4.0	0.92	GBU810 LC

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	μA	A	V	

10 AMPERE / GBU

GBU1002	200	10	220	5.0	5.0	1.10	GBU1002
GBU1004	400	10	220	5.0	5.0	1.10	GBU1004
GBU1006	600	10	220	5.0	5.0	1.10	GBU1006
GBU1008	800	10	220	5.0	5.0	1.10	GBU1008
GBU1010	1000	10	220	5.0	5.0	1.10	GBU1010

10 AMPERE / GBU / Halogen-free

GBU1002H	200	10	220	5.0	5.0	1.10	GBU1002.
GBU1004H	400	10	220	5.0	5.0	1.10	GBU1004.
GBU1006H	600	10	220	5.0	5.0	1.10	GBU1006.
GBU1008H	800	10	220	5.0	5.0	1.10	GBU1008.
GBU1010H	1000	10	220	5.0	5.0	1.10	GBU1010.

NEW Low VF

10 AMPERE / GBU-LC Superex II

GBU1002LC	200	10	290	5.0	5.0	0.91	GBU1002 LC
GBU1004LC	400	10	290	5.0	5.0	0.91	GBU1004 LC
GBU1006LC	600	10	290	5.0	5.0	0.91	GBU1006 LC
GBU1008LC	800	10	220	5.0	5.0	0.92	GBU1008 LC
GBU1010LC	1000	10	220	5.0	5.0	0.92	GBU1010 LC

10 AMPERE / GBJ

GBJ10D	200	10	175	5.0	5.0	1.10	GBJ10D
GBJ10G	400	10	175	5.0	5.0	1.10	GBJ10G
GBJ10J	600	10	175	5.0	5.0	1.10	GBJ10J
GBJ10K	800	10	175	5.0	5.0	1.10	GBJ10K
GBJ10M	1000	10	175	5.0	5.0	1.10	GBJ10M

10 AMPERE / GBJ / Halogen-free

GBJ10DH	200	10	175	5.0	5.0	1.10	GBJ10D.
GBJ10GH	400	10	175	5.0	5.0	1.10	GBJ10G.
GBJ10JH	600	10	175	5.0	5.0	1.10	GBJ10J.
GBJ10KH	800	10	175	5.0	5.0	1.10	GBJ10K.
GBJ10MH	1000	10	175	5.0	5.0	1.10	GBJ10M.

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	μA	A	V	

15 AMPERE / GBJ



GBJ15D	200	15	200	10	7.5	1.10	GBJ15D
GBJ15G	400	15	200	10	7.5	1.10	GBJ15G
GBJ15J	600	15	200	10	7.5	1.10	GBJ15J
GBJ15K	800	15	200	10	7.5	1.10	GBJ15K
GBJ15M	1000	15	200	10	7.5	1.10	GBJ15M

15 AMPERE / GBJ / Halogen-free



GBJ15DH	200	15	200	10	7.5	1.10	GBJ15D.
GBJ15GH	400	15	200	10	7.5	1.10	GBJ15G.
GBJ15JH	600	15	200	10	7.5	1.10	GBJ15J.
GBJ15KH	800	15	200	10	7.5	1.10	GBJ15K.
GBJ15MH	1000	15	200	10	7.5	1.10	GBJ15M.

20 AMPERE / GBJ



GBJ20D	200	20	250	10	10	1.10	GBJ20D
GBJ20G	400	20	250	10	10	1.10	GBJ20G
GBJ20J	600	20	250	10	10	1.10	GBJ20J
GBJ20K	800	20	250	10	10	1.10	GBJ20K
GBJ20M	1000	20	250	10	10	1.10	GBJ20M

20 AMPERE / GBJ / Halogen-free



GBJ20DH	200	20	250	10	10	1.10	GBJ20D.
GBJ20GH	400	20	250	10	10	1.10	GBJ20G.
GBJ20JH	600	20	250	10	10	1.10	GBJ20J.
GBJ20KH	800	20	250	10	10	1.10	GBJ20K.
GBJ20MH	1000	20	250	10	10	1.10	GBJ20M.

25 AMPERE / GBJ



GBJ25D	200	25	350	10	12.5	1.10	GBJ25D
GBJ25G	400	25	350	10	12.5	1.10	GBJ25G
GBJ25J	600	25	350	10	12.5	1.10	GBJ25J
GBJ25K	800	25	350	10	12.5	1.10	GBJ25K
GBJ25M	1000	25	350	10	12.5	1.10	GBJ25M

SINTERED GLASS PASSIVATED JUNCTION BRIDGE RECTIFIERS

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Marking
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

25 AMPERE / GBJ / Halogen-free



GBJ25DH	200	25	350	10	12.5	1.10	GBJ25D.
GBJ25GH	400	25	350	10	12.5	1.10	GBJ25G.
GBJ25JH	600	25	350	10	12.5	1.10	GBJ25J.
GBJ25KH	800	25	350	10	12.5	1.10	GBJ25K.
GBJ25MH	1000	25	350	10	12.5	1.10	GBJ25M.

25 AMPERE / GBPC / GBPC-W



GBPC2502	200	25	340	10	12.5	1.10	GBPC2502
GBPC2504	400	25	340	10	12.5	1.10	GBPC2504
GBPC2506	600	25	340	10	12.5	1.10	GBPC2504
GBPC2508	800	25	340	10	12.5	1.10	GBPC2508
GBPC2510	1000	25	340	10	12.5	1.10	GBPC2510

NOTE : Suffix " W " for Wire Type.

35 AMPERE / GBPC / GBPC-W



GBPC3502	200	35	400	10	17.5	1.10	GBPC3502
GBPC3504	400	35	400	10	17.5	1.10	GBPC3504
GBPC3506	600	35	400	10	17.5	1.10	GBPC3504
GBPC3508	800	35	400	10	17.5	1.10	GBPC3508
GBPC3510	1000	35	400	10	17.5	1.10	GBPC3510

NOTE : Suffix " W " for Wire Type.



GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

STCD SERIES TVS / 200 WATTS / 1206 Suprex II



STCD PART NUMBER		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @ I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @ 10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @ V _{RWM}
UNI- POLAR	BI-POLAR		Min. (V)	Max. (V)	I _T (mA)			
STCD5.0AH	STCD5.0CAH	5.0	6.40	7.00	10	9.2	21.74	400
STCD6.0AH	STCD6.0CAH	6.0	6.67	7.37	10	10.3	19.42	400
STCD6.5AH	STCD6.5CAH	6.5	7.22	7.98	10	11.2	17.86	250
STCD7.0AH	STCD7.0CAH	7.0	7.78	8.60	10	12.0	16.67	100
STCD7.5AH	STCD7.5CAH	7.5	8.33	9.21	1	12.9	15.50	50
STCD8.0AH	STCD8.0CAH	8.0	8.89	9.83	1	13.6	14.71	25
STCD8.5AH	STCD8.5CAH	8.5	9.44	10.40	1	14.4	13.89	10
STCD9.0AH	STCD9.0CAH	9.0	10.00	11.10	1	15.4	12.99	5
STCD10AH	STCD10CAH	10	11.10	12.30	1	17.0	11.76	2.5
STCD11AH	STCD11CAH	11	12.20	13.50	1	18.2	10.99	2.5
STCD12AH	STCD12CAH	12	13.30	14.70	1	19.9	10.05	2.5
STCD13AH	STCD13CAH	13	14.40	15.90	1	21.5	9.30	1
STCD14AH	STCD14CAH	14	15.60	17.20	1	23.2	8.62	1
STCD15AH	STCD15CAH	15	16.70	18.50	1	24.4	8.20	1
STCD16AH	STCD16CAH	16	17.80	19.70	1	26.0	7.69	1
STCD17AH	STCD17CAH	17	18.90	20.90	1	27.6	7.25	1
STCD18AH	STCD18CAH	18	20.00	22.10	1	29.2	6.85	1
STCD19AH	STCD19CAH	19	21.10	23.30	1	30.6	6.54	1
STCD20AH	STCD20CAH	20	22.20	24.50	1	32.4	6.17	1
STCD22AH	STCD22CAH	22	24.40	26.90	1	35.5	5.63	1
STCD24AH	STCD24CAH	24	26.70	29.50	1	38.9	5.14	1
STCD26AH	STCD26CAH	26	28.90	31.90	1	42.1	4.75	1
STCD28AH	STCD28CAH	28	31.10	34.40	1	45.4	4.41	1
STCD30AH	STCD30CAH	30	33.30	36.80	1	48.4	4.13	1
STCD33AH	STCD33CAH	33	36.70	40.60	1	53.3	3.75	1
STCD36AH	STCD36CAH	36	40.00	44.20	1	58.1	3.44	1
STCD40AH	STCD40CAH	40	44.40	49.10	1	64.5	3.10	1
STCD43AH	STCD43CAH	43	47.80	52.80	1	69.4	2.88	1
STCD45AH	STCD45CAH	45	50.00	55.30	1	72.7	2.75	1
STCD48AH	STCD48CAH	48	53.30	58.90	1	77.4	2.58	1
STCD51AH	STCD51CAH	51	56.70	62.70	1	82.4	2.43	1
STCD54AH	STCD54CAH	54	60.00	66.30	1	87.1	2.30	1
STCD58AH	STCD58CAH	58	64.40	71.20	1	93.6	2.14	1
STCD60AH	STCD60CAH	60	66.70	73.70	1	96.8	2.07	1
STCD64AH	STCD64CAH	64	71.10	78.60	1	103.0	1.94	1
STCD70AH	STCD70CAH	70	77.80	86.00	1	113.0	1.77	1
STCD75AH	STCD75CAH	75	83.30	92.10	1	121.0	1.65	1
STCD78AH	STCD78CAH	78	86.70	95.80	1	126.0	1.59	1
STCD80AH	STCD80CAH	80	88.80	97.60	1	129.0	1.55	1
STCD85AH	STCD85CAH	85	94.40	104.00	1	137.0	1.46	1
STCD90AH	STCD90CAH	90	100	111	1	146.0	1.37	1
STCD100AH	STCD100CAH	100	111	123	1	162.0	1.23	1
STCD110AH	STCD110CAH	110	122	135	1	177.0	1.13	1
STCD120AH	STCD120CAH	120	133	147	1	193.0	1.04	1
STCD130AH	STCD130CAH	130	144	159	1	209.0	0.96	1
STCD140AH	STCD140CAH	140	155	171	1	224.0	0.89	1
STCD150AH	STCD150CAH	150	167	185	1	243.0	0.82	1
STCD160AH	STCD160CAH	160	178	197	1	259.0	0.77	1
STCD170AH	STCD170CAH	170	189	209	1	275.0	0.73	1
STCD180AH	STCD180CAH	180	200	220	1	292.0	0.69	1
STCD190AH	STCD190CAH	190	211	232	1	308.0	0.69	1

NOTE : 1. Suffix "A" denotes 5% tolerance device.

2. Add suffix "CA" after part number to specify Bi-directional devices.

3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double.

4. Preliminary specification.



GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

**TCD SERIES TVS / 400 WATTS / 2010
Superox II**



TCD PART NUMBER		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @ I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @ 10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @ V _{RWM}
UNI- POLAR	BI-POLAR		Min. (V)	Max. (V)	I _T (mA)			
TCD5.0AH	TCD5.0CAH	5.0	6.4	7.00	10	9.2	43.48	800
TCD6.0AH	TCD6.0CAH	6.0	6.7	7.37	10	10.3	38.83	800
TCD6.5AH	TCD6.5CAH	6.5	7.2	7.98	10	11.2	35.71	500
TCD7.0AH	TCD7.0CAH	7.0	7.8	8.60	10	12.0	33.33	200
TCD7.5AH	TCD7.5CAH	7.5	8.3	9.21	1	12.9	31.01	100
TCD8.0AH	TCD8.0CAH	8.0	8.9	9.83	1	13.6	29.41	50
TCD8.5AH	TCD8.5CAH	8.5	9.4	10.4	1	14.4	27.78	10
TCD9.0AH	TCD9.0CAH	9.0	10.0	11.1	1	15.4	25.97	1
TCD10AH	TCD10CAH	10	11.1	12.3	1	17.0	23.53	1
TCD11AH	TCD11CAH	11	12.2	13.5	1	18.2	21.98	1
TCD12AH	TCD12CAH	12	13.3	14.7	1	19.9	20.10	1
TCD13AH	TCD13CAH	13	14.4	15.9	1	21.5	18.60	1
TCD14AH	TCD14CAH	14	15.6	17.2	1	23.2	17.24	1
TCD15AH	TCD15CAH	15	16.7	18.5	1	24.4	16.39	1
TCD16AH	TCD16CAH	16	17.8	19.7	1	26.0	15.38	1
TCD17AH	TCD17CAH	17	18.9	20.9	1	27.6	14.49	1
TCD18AH	TCD18CAH	18	20.0	22.1	1	29.2	13.70	1
TCD19AH	TCD19CAH	19	21.1	23.3	1	30.8	13.00	1
TCD20AH	TCD20CAH	20	22.2	24.5	1	32.4	12.35	1
TCD22AH	TCD22CAH	22	24.4	26.9	1	35.5	11.27	1
TCD24AH	TCD24CAH	24	26.7	29.5	1	38.9	10.28	1
TCD26AH	TCD26CAH	26	28.9	31.9	1	42.1	9.50	1
TCD28AH	TCD28CAH	28	31.1	34.4	1	45.4	8.81	1
TCD30AH	TCD30CAH	30	33.3	36.8	1	48.4	8.26	1
TCD33AH	TCD33CAH	33	36.7	40.6	1	53.3	7.50	1
TCD36AH	TCD36CAH	36	40.0	44.2	1	58.1	6.88	1
TCD40AH	TCD40CAH	40	44.4	49.1	1	64.5	6.20	1
TCD43AH	TCD43CAH	43	47.8	52.8	1	69.4	5.76	1
TCD45AH	TCD45CAH	45	50.0	55.3	1	72.7	5.50	1
TCD48AH	TCD48CAH	48	53.3	58.9	1	77.4	5.17	1
TCD51AH	TCD51CAH	51	56.7	62.7	1	82.4	4.85	1
TCD54AH	TCD54CAH	54	60.0	66.3	1	87.1	4.59	1
TCD58AH	TCD58CAH	58	64.4	71.2	1	93.6	4.27	1
TCD60AH	TCD60CAH	60	66.7	73.7	1	96.8	4.13	1
TCD64AH	TCD64CAH	64	71.1	78.6	1	103	3.88	1
TCD70AH	TCD70CAH	70	77.8	86.0	1	113	3.54	1
TCD75AH	TCD75CAH	75	83.3	92.1	1	121	3.31	1
TCD78AH	TCD78CAH	78	86.7	95.8	1	126	3.17	1
TCD80AH	TCD80CAH	80	88.8	97.6	1	130	3.09	1
TCD85AH	TCD85CAH	85	94.4	104	1	137	2.92	1
TCD90AH	TCD90CAH	90	100	111	1	146	2.74	1
TCD100AH	TCD100CAH	100	111	123	1	162	2.47	1
TCD110AH	TCD110CAH	110	122	135	1	177	2.26	1
TCD120AH	TCD120CAH	120	133	147	1	193	2.07	1
TCD130AH	TCD130CAH	130	144	159	1	209	1.91	1
TCD140AH	TCD140CAH	140	155	171	1	227	1.76	1
TCD150AH	TCD150CAH	150	167	185	1	243	1.65	1
TCD160AH	TCD160CAH	160	178	197	1	259	1.54	1
TCD170AH	TCD170CAH	170	189	209	1	275	1.45	1
TCD180AH	TCD180CAH	180	200	220	1	292	1.37	1
TCD190AH	TCD190CAH	190	211	232	1	308	1.30	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.
2. Add suffix " CA " after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double.
4. Preliminary specification.

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

SMAJ SERIES TVS / 400 WATTS / DO-214AC (SMA)



SMAJ PART NUMBER		Device Marking Code		Working Peak Reverse Voltage V _{VRWM} (V)	Breakdown Voltage V _{BR} @ I _T			Maximum Clamping Voltage V _C (V) @ I _{FP}	Maximum Reverse Surge Current I _{PP} (A) @ 10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @ V _{VRWM}
UNI- POLAR	BI-POLAR	UNI	BI		Min. (V)	Max. (V)	I _T (mA)			
SMAJ5.0A	SMAJ5.0CA	AE	WE	5.0	6.4	7.00	10	9.2	43.48	800
SMAJ6.0A	SMAJ6.0CA	AG	WG	6.0	6.7	7.37	10	10.3	38.83	800
SMAJ6.5A	SMAJ6.5CA	AK	WK	6.5	7.2	7.98	10	11.2	35.71	500
SMAJ7.0A	SMAJ7.0CA	AM	WM	7.0	7.8	8.60	10	12.0	33.33	200
SMAJ7.5A	SMAJ7.5CA	AP	WP	7.5	8.3	9.21	1	12.9	31.01	100
SMAJ8.0A	SMAJ8.0CA	AR	WR	8.0	8.9	9.83	1	13.6	29.41	50
SMAJ8.5A	SMAJ8.5CA	AT	WT	8.5	9.4	10.4	1	14.4	27.78	10
SMAJ9.0A	SMAJ9.0CA	AV	WV	9.0	10.0	11.1	1	15.4	25.97	5
SMAJ10A	SMAJ10CA	AX	WX	10	11.1	12.3	1	17.0	23.53	1
SMAJ11A	SMAJ11CA	AZ	WZ	11	12.2	13.5	1	18.2	21.98	1
SMAJ12A	SMAJ12CA	BE	XE	12	13.3	14.7	1	19.9	20.10	1
SMAJ13A	SMAJ13CA	BG	XG	13	14.4	15.9	1	21.5	18.60	1
SMAJ14A	SMAJ14CA	BK	XK	14	15.6	17.2	1	23.2	17.24	1
SMAJ15A	SMAJ15CA	BM	XM	15	16.7	18.5	1	24.4	16.39	1
SMAJ16A	SMAJ16CA	BP	XP	16	17.8	19.7	1	26.0	15.38	1
SMAJ17A	SMAJ17CA	BR	XR	17	18.9	20.9	1	27.6	14.49	1
SMAJ18A	SMAJ18CA	BT	XT	18	20.0	22.1	1	29.2	13.70	1
SMAJ19A	SMAJ19CA	BB	XB	19	21.1	23.3	1	30.8	13.00	1
SMAJ20A	SMAJ20CA	BV	XV	20	22.2	24.5	1	32.4	12.35	1
SMAJ22A	SMAJ22CA	BX	XX	22	24.4	26.9	1	35.5	11.27	1
SMAJ24A	SMAJ24CA	BZ	XZ	24	26.7	29.5	1	38.9	10.28	1
SMAJ26A	SMAJ26CA	CE	YE	26	28.9	31.9	1	42.1	9.50	1
SMAJ28A	SMAJ28CA	CG	YG	28	31.1	34.4	1	45.4	8.81	1
SMAJ30A	SMAJ30CA	CK	YK	30	33.3	36.8	1	48.4	8.26	1
SMAJ33A	SMAJ33CA	CM	YM	33	36.7	40.6	1	53.3	7.50	1
SMAJ36A	SMAJ36CA	CP	YP	36	40.0	44.2	1	58.1	6.88	1
SMAJ40A	SMAJ40CA	CR	YR	40	44.4	49.1	1	64.5	6.20	1
SMAJ43A	SMAJ43CA	CT	YT	43	47.8	52.8	1	69.4	5.76	1
SMAJ45A	SMAJ45CA	CV	YV	45	50.0	55.3	1	72.7	5.50	1
SMAJ48A	SMAJ48CA	CX	YX	48	53.3	58.9	1	77.4	5.17	1
SMAJ51A	SMAJ51CA	CZ	YZ	51	56.7	62.7	1	82.4	4.85	1
SMAJ54A	SMAJ54CA	RE	ZE	54	60.0	66.3	1	87.1	4.59	1
SMAJ58A	SMAJ58CA	RG	ZG	58	64.4	71.2	1	93.6	4.27	1
SMAJ60A	SMAJ60CA	RK	ZK	60	66.7	73.7	1	96.8	4.13	1
SMAJ64A	SMAJ64CA	RM	ZM	64	71.1	78.6	1	103	3.88	1
SMAJ70A	SMAJ70CA	RP	ZP	70	77.8	86.0	1	113	3.54	1
SMAJ75A	SMAJ75CA	RR	ZR	75	83.3	92.1	1	121	3.31	1
SMAJ78A	SMAJ78CA	RT	ZT	78	86.7	95.8	1	126	3.17	1
SMAJ80A	SMAJ80CA	RB	ZB	80	88.8	97.6	1	130	3.09	1
SMAJ85A	SMAJ85CA	RV	ZV	85	94.4	104	1	137	2.92	1
SMAJ90A	SMAJ90CA	RX	ZX	90	100	111	1	146	2.74	1
SMAJ100A	SMAJ100CA	RZ	ZZ	100	111	123	1	162	2.47	1
SMAJ110A	SMAJ110CA	SE	VE	110	122	135	1	177	2.26	1
SMAJ120A	SMAJ120CA	SG	VG	120	133	147	1	193	2.07	1
SMAJ130A	SMAJ130CA	SK	VK	130	144	159	1	209	1.91	1
SMAJ140A	SMAJ140CA	SB	VB	140	155	171	1	227	1.76	1
SMAJ150A	SMAJ150CA	SM	VM	150	167	185	1	243	1.65	1
SMAJ160A	SMAJ160CA	SP	VP	160	178	197	1	259	1.54	1
SMAJ170A	SMAJ170CA	SR	VR	170	189	209	1	275	1.45	1
SMAJ180A	SMAJ180CA	ST	VT	180	200	220	1	292	1.37	1
SMAJ190A	SMAJ190CA	SV	VV	190	211	232	1	308	1.30	1
SMAJ200A	SMAJ200CA	SW	VW	200	224	247	1	324	1.23	1
SMAJ220A	SMAJ220CA	SX	VX	220	246	272	1	356	1.12	1
SMAJ250A	SMAJ250CA	SZ	VZ	250	279	309	1	405	0.99	1
SMAJ300A	SMAJ300CA	DE	HE	300	335	371	1	486	0.82	1
SMAJ350A	SMAJ350CA	DG	HG	350	391	432	1	567	0.71	1
SMAJ400A	SMAJ400CA	DK	HK	400	447	494	1	648	0.62	1
SMAJ440A	SMAJ440CA	DM	HM	440	492	543	1	713	0.56	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.
2. Add suffix " CA " after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double .

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

P4KE SERIES TVS / 400 WATTS / DO-204AL (DO-41)

P4KE PART NUMBER		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @V _{RWM}
UNI-POLAR	BI-POLAR		Min. (V)	Max. (V)	I _T (mA)			
P4KE6.8A	P4KE6.8CA	5.8	6.46	7.14	10	10.5	38.1	1000
P4KE7.5A	P4KE7.5CA	6.4	7.13	7.88	10	11.3	35.4	500
P4KE8.2A	P4KE8.2CA	7.0	7.79	8.61	10	12.1	33.1	200
P4KE9.1A	P4KE9.1CA	7.8	8.65	9.56	1	13.4	29.9	50
P4KE10A	P4KE10CA	8.6	9.50	10.50	1	14.5	27.6	10
P4KE11A	P4KE11CA	9.4	10.45	11.55	1	15.6	25.6	5
P4KE12A	P4KE12CA	10.2	11.40	12.60	1	16.7	24.0	5
P4KE13A	P4KE13CA	11.1	12.35	13.65	1	18.2	22.0	1
P4KE15A	P4KE15CA	12.8	14.25	15.75	1	21.2	18.9	1
P4KE16A	P4KE16CA	13.6	15.20	16.80	1	22.5	17.8	1
P4KE18A	P4KE18CA	15.3	17.10	18.90	1	25.2	15.9	1
P4KE20A	P4KE20CA	17.1	19.00	21.00	1	27.7	14.4	1
P4KE22A	P4KE22CA	18.8	20.90	23.10	1	30.6	13.1	1
P4KE24A	P4KE24CA	20.5	22.80	25.20	1	33.2	12.0	1
P4KE27A	P4KE27CA	23.1	25.65	28.35	1	37.5	10.7	1
P4KE30A	P4KE30CA	25.6	28.50	31.50	1	41.4	9.66	1
P4KE33A	P4KE33CA	28.2	31.35	34.65	1	45.7	8.75	1
P4KE36A	P4KE36CA	30.8	34.20	37.80	1	49.9	8.02	1
P4KE39A	P4KE39CA	33.3	37.05	40.95	1	53.9	7.42	1
P4KE43A	P4KE43CA	36.8	40.85	45.15	1	59.3	6.75	1
P4KE47A	P4KE47CA	40.2	44.65	49.35	1	64.8	6.17	1
P4KE51A	P4KE51CA	43.6	48.45	53.55	1	70.1	5.71	1
P4KE56A	P4KE56CA	47.8	53.20	58.80	1	77.0	5.19	1
P4KE62A	P4KE62CA	53.0	58.90	65.10	1	85.0	4.71	1
P4KE68A	P4KE68CA	58.1	64.60	71.40	1	92.0	4.35	1
P4KE75A	P4KE75CA	64.1	71.25	78.75	1	103.0	3.88	1
P4KE82A	P4KE82CA	70.1	77.90	86.10	1	113.0	3.54	1
P4KE91A	P4KE91CA	77.8	86.45	95.55	1	125.0	3.20	1
P4KE100A	P4KE100CA	85.5	95.0	105.0	1	137.0	2.92	1
P4KE110A	P4KE110CA	94.0	104.5	115.5	1	152.0	2.63	1
P4KE120A	P4KE120CA	102.0	114.0	126.0	1	165.0	2.42	1
P4KE130A	P4KE130CA	111.0	123.5	136.5	1	179.0	2.23	1
P4KE150A	P4KE150CA	128.0	142.5	157.5	1	207.0	1.93	1
P4KE160A	P4KE160CA	136.0	152.0	168.0	1	219.0	1.83	1
P4KE170A	P4KE170CA	145.0	161.5	178.5	1	234.0	1.71	1
P4KE180A	P4KE180CA	154.0	171.0	189.0	1	246.0	1.63	1
P4KE200A	P4KE200CA	171.0	190.0	210.0	1	274.0	1.46	1
P4KE220A	P4KE220CA	185.0	209.0	231.0	1	328.0	1.22	1
P4KE250A	P4KE250CA	214.0	237.5	262.5	1	344.0	1.16	1
P4KE300A	P4KE300CA	256.0	285.0	315.0	1	414.0	0.97	1
P4KE350A	P4KE350CA	299.0	332.5	367.5	1	482.0	0.83	1
P4KE380A	P4KE380CA	325.0	361.0	399.0	1	524.0	0.76	1
P4KE400A	P4KE400CA	342.0	380.0	420.0	1	548.0	0.73	1
P4KE440A	P4KE440CA	376.0	418.0	462.0	1	602.0	0.66	1
P4KE500A	P4KE500CA	427.5	475.0	525.0	1	690.0	0.58	1
P4KE520A	P4KE520CA	444.6	494.0	546.0	1	717.6	0.56	1
P4KE550A	P4KE550CA	470.3	522.5	577.5	1	759.0	0.53	1
P4KE600A	P4KE600CA	513.0	570.0	630.0	1	828.0	0.48	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.
2. Add suffix " CA " after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double .

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS



SMBJ SERIES TVS / 600 WATTS / DO-214AA (SMB)

SMBJ PART NUMBER		Device Marking Code		Working Peak Reverse Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} @ I_T			Maximum Clamping Voltage V_C (V) @ I_{PP}	Maximum Reverse Surge Current I_{PP} (A) @ $10 \times 1000 \mu s$ sinewave	Maximum Reverse Leakage I_R (μA) @ V_{RWM}
UNI- POLAR	BI-POLAR	UNI	BI		Min. (V)	Max. (V)	I_T (mA)			
SMBJ5.0A	SMBJ5.0CA	KE	AE	5.0	6.40	7.00	10	9.2	65.22	800
SMBJ6.0A	SMBJ6.0CA	KG	AG	6.0	6.67	7.37	10	10.3	58.25	800
SMBJ6.5A	SMBJ6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.57	500
SMBJ7.0A	SMBJ7.0CA	KM	AM	7.0	7.78	8.60	10	12.0	50.00	200
SMBJ7.5A	SMBJ7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.51	100
SMBJ8.0A	SMBJ8.0CA	KR	AR	8.0	8.89	9.83	1	13.6	44.12	50
SMBJ8.5A	SMBJ8.5CA	KT	AT	8.5	9.44	10.4	1	14.4	41.67	10
SMBJ9.0A	SMBJ9.0CA	KV	AV	9.0	10.0	11.1	1	15.4	38.96	5
SMBJ10A	SMBJ10CA	KX	AX	10	11.1	12.3	1	17.0	35.29	5
SMBJ11A	SMBJ11CA	KZ	AZ	11	12.2	13.5	1	18.2	32.97	5
SMBJ12A	SMBJ12CA	LE	BE	12	13.3	14.7	1	19.9	30.15	5
SMBJ13A	SMBJ13CA	LG	BG	13	14.4	15.9	1	21.5	27.91	1
SMBJ14A	SMBJ14CA	LK	BK	14	15.6	17.2	1	23.2	25.86	1
SMBJ15A	SMBJ15CA	LM	BM	15	16.7	18.5	1	24.4	24.59	1
SMBJ16A	SMBJ16CA	LP	BP	16	17.8	19.7	1	26.0	23.08	1
SMBJ17A	SMBJ17CA	LR	BR	17	18.9	20.9	1	27.6	21.74	1
SMBJ18A	SMBJ18CA	LT	BT	18	20.0	22.1	1	29.2	20.55	1
SMBJ19A	SMBJ19CA	LB	BB	19	21.1	23.3	1	30.8	19.49	1
SMBJ20A	SMBJ20CA	LV	BV	20	22.2	24.5	1	32.4	18.52	1
SMBJ22A	SMBJ22CA	LX	BX	22	24.4	26.9	1	35.5	16.90	1
SMBJ24A	SMBJ24CA	LZ	BZ	24	26.7	29.5	1	38.9	15.42	1
SMBJ26A	SMBJ26CA	ME	CE	26	28.9	31.9	1	42.1	14.25	1
SMBJ28A	SMBJ28CA	MG	CG	28	31.1	34.4	1	45.4	13.22	1
SMBJ30A	SMBJ30CA	MK	CK	30	33.3	36.8	1	48.4	12.40	1
SMBJ33A	SMBJ33CA	MM	CM	33	36.7	40.6	1	53.3	11.26	1
SMBJ36A	SMBJ36CA	MP	CP	36	40.0	44.2	1	58.1	10.33	1
SMBJ40A	SMBJ40CA	MR	CR	40	44.4	49.1	1	64.5	9.30	1
SMBJ43A	SMBJ43CA	MT	CT	43	47.8	52.8	1	69.4	8.65	1
SMBJ45A	SMBJ45CA	MV	CV	45	50.0	55.3	1	72.7	8.25	1
SMBJ48A	SMBJ48CA	MX	CX	48	53.3	58.9	1	77.4	7.75	1
SMBJ51A	SMBJ51CA	MZ	CZ	51	56.7	62.7	1	82.4	7.28	1
SMBJ54A	SMBJ54CA	NE	DE	54	60.0	66.3	1	87.1	6.89	1
SMBJ58A	SMBJ58CA	NG	DG	58	64.4	71.2	1	93.6	6.41	1
SMBJ60A	SMBJ60CA	NK	DK	60	66.7	73.7	1	96.8	6.20	1
SMBJ64A	SMBJ64CA	NM	DM	64	71.1	78.6	1	103	5.83	1
SMBJ70A	SMBJ70CA	NP	DP	70	77.8	86.0	1	113	5.31	1
SMBJ75A	SMBJ75CA	NR	DR	75	83.3	92.1	1	121	4.96	1
SMBJ78A	SMBJ78CA	NT	DT	78	86.7	95.8	1	126	4.76	1
SMBJ80A	SMBJ80CA	NB	DB	80	88.8	97.6	1	130	4.63	1
SMBJ85A	SMBJ85CA	NV	DV	85	94.4	104	1	137	4.38	1
SMBJ90A	SMBJ90CA	NX	DX	90	100	111	1	146	4.11	1
SMBJ100A	SMBJ100CA	NZ	DZ	100	111	123	1	162	3.70	1
SMBJ110A	SMBJ110CA	PE	EE	110	122	135	1	177	3.39	1
SMBJ120A	SMBJ120CA	PG	EG	120	133	147	1	193	3.11	1
SMBJ130A	SMBJ130CA	PK	EK	130	144	159	1	209	2.87	1
SMBJ140A	SMBJ140CA	PB	EB	140	155	171	1	227	2.65	1
SMBJ150A	SMBJ150CA	PM	EM	150	167	185	1	243	2.47	1
SMBJ160A	SMBJ160CA	PP	EP	160	178	197	1	259	2.32	1
SMBJ170A	SMBJ170CA	PR	ER	170	189	209	1	275	2.18	1
SMBJ180A	SMBJ180CA	PT	ET	180	200	220	1	292	2.06	1
SMBJ190A	SMBJ190CA	PV	EV	190	211	232	1	308	1.95	1
SMBJ200A	SMBJ200CA	PW	EW	200	224	247	1	324	1.85	1
SMBJ220A	SMBJ220CA	PX	EX	220	246	272	1	356	1.69	1
SMBJ250A	SMBJ250CA	PZ	EZ	250	279	309	1	405	1.48	1
SMBJ300A	SMBJ300CA	QE	FE	300	335	371	1	486	1.23	1
SMBJ350A	SMBJ350CA	QG	FG	350	391	432	1	567	1.06	1
SMBJ400A	SMBJ400CA	QK	FK	400	447	494	1	648	0.93	1
SMBJ440A	SMBJ440CA	QM	FM	440	492	543	1	713	0.84	1

- NOTE : 1. Suffix "A" denotes 5% tolerance device.
2. Add suffix "CA" after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double.

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

P6KE SERIES TVS / 600 WATTS / DO-204AC (DO-15)

P6KE PART NUMBER		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @V _{RWM}
UNI-POLAR	BI-POLAR		Min. (V)	Max. (V)	I _T (mA)			
P6KE6.8A	P6KE6.8CA	5.8	6.46	7.14	10	10.5	57.1	1000
P6KE7.5A	P6KE7.5CA	6.4	7.13	7.88	10	11.3	53.1	500
P6KE8.2A	P6KE8.2CA	7.0	7.79	8.61	10	12.1	49.6	200
P6KE9.1A	P6KE9.1CA	7.8	8.65	9.56	1	13.4	44.8	50
P6KE10A	P6KE10CA	8.6	9.50	10.50	1	14.5	41.4	10
P6KE11A	P6KE11CA	9.4	10.45	11.55	1	15.6	38.5	5
P6KE12A	P6KE12CA	10.2	11.40	12.60	1	16.7	35.9	5
P6KE13A	P6KE13CA	11.1	12.35	13.65	1	18.2	33.0	1
P6KE15A	P6KE15CA	12.8	14.25	15.75	1	21.2	28.3	1
P6KE16A	P6KE16CA	13.6	15.20	16.80	1	22.5	26.7	1
P6KE18A	P6KE18CA	15.3	17.10	18.90	1	25.2	23.8	1
P6KE20A	P6KE20CA	17.1	19.00	21.00	1	27.7	21.7	1
P6KE22A	P6KE22CA	18.8	20.90	23.10	1	30.6	19.6	1
P6KE24A	P6KE24CA	20.5	22.80	25.20	1	33.2	18.1	1
P6KE27A	P6KE27CA	23.1	25.65	28.35	1	37.5	16.0	1
P6KE30A	P6KE30CA	25.6	28.50	31.50	1	41.4	14.5	1
P6KE33A	P6KE33CA	28.2	31.35	34.65	1	45.7	13.1	1
P6KE36A	P6KE36CA	30.8	34.20	37.80	1	49.9	12.0	1
P6KE39A	P6KE39CA	33.3	37.05	40.95	1	53.9	11.1	1
P6KE43A	P6KE43CA	36.8	40.85	45.15	1	59.3	10.1	1
P6KE47A	P6KE47CA	40.2	44.65	49.35	1	64.8	9.26	1
P6KE51A	P6KE51CA	43.6	48.45	53.55	1	70.1	8.56	1
P6KE56A	P6KE56CA	47.8	53.20	58.80	1	77.0	7.79	1
P6KE62A	P6KE62CA	53.0	58.90	65.10	1	85.0	7.06	1
P6KE68A	P6KE68CA	58.1	64.60	71.40	1	92.0	6.52	1
P6KE75A	P6KE75CA	64.1	71.25	78.75	1	103.0	5.83	1
P6KE82A	P6KE82CA	70.1	77.90	86.10	1	113.0	5.31	1
P6KE91A	P6KE91CA	77.8	86.45	95.55	1	125.0	4.80	1
P6KE100A	P6KE100CA	85.5	95.0	105.0	1	137.0	4.38	1
P6KE110A	P6KE110CA	94.0	104.5	115.5	1	152.0	3.95	1
P6KE120A	P6KE120CA	102.0	114.0	126.0	1	165.0	3.64	1
P6KE130A	P6KE130CA	111.0	123.5	136.5	1	179.0	3.35	1
P6KE150A	P6KE150CA	128.0	142.5	157.5	1	207.0	2.90	1
P6KE160A	P6KE160CA	136.0	152.0	168.0	1	219.0	2.74	1
P6KE170A	P6KE170CA	145.0	161.5	178.5	1	234.0	2.56	1
P6KE180A	P6KE180CA	154.0	171.0	189.0	1	246.0	2.44	1
P6KE200A	P6KE200CA	171.0	190.0	210.0	1	274.0	2.19	1
P6KE220A	P6KE220CA	185.0	209.0	231.0	1	328.0	1.83	1
P6KE250A	P6KE250CA	214.0	237.5	262.5	1	344.0	1.74	1
P6KE300A	P6KE300CA	256.0	285.0	315.0	1	414.0	1.45	1
P6KE350A	P6KE350CA	299.0	332.5	367.5	1	482.0	1.24	1
P6KE380A	P6KE380CA	325.0	361.0	399.0	1	524.0	1.14	1
P6KE400A	P6KE400CA	342.0	380.0	420.0	1	548.0	1.09	1
P6KE440A	P6KE440CA	376.0	418.0	462.0	1	602.0	1.00	1
P6KE500A	P6KE500CA	427.5	475.0	525.0	1	690.0	0.87	1
P6KE520A	P6KE520CA	444.6	494.0	546.0	1	717.6	0.84	1
P6KE550A	P6KE550CA	470.3	522.5	577.5	1	759.0	0.79	1
P6KE600A	P6KE600CA	513.0	570.0	630.0	1	828.0	0.72	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.
2. Add suffix " CA " after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double .

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

SMCJ SERIES TVS / 1500 WATTS / DO-214AB (SMC)



SMCJ PART NUMBER		Device Marking Code		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @10 x 1000 μs sinewave	Maximum Reverse Leakage I _R (μA) @ V _{RWM}
UNI- POLAR	BI-POLAR	UNI	BI		Min. (V)	Max. (V)	I _T (mA)			
SMCJ5.0A	SMCJ5.0CA	GDE	BDE	5.0	6.40	7.00	10	9.2	163.0	800
SMCJ6.0A	SMCJ6.0CA	GDG	BDG	6.0	6.67	7.37	10	10.3	145.6	800
SMCJ6.5A	SMCJ6.5CA	GDK	BDK	6.5	7.22	7.98	10	11.2	133.9	500
SMCJ7.0A	SMCJ7.0CA	GDM	BDM	7.0	7.78	8.60	10	12.0	125.0	200
SMCJ7.5A	SMCJ7.5CA	GDP	BDP	7.5	8.33	9.21	1	12.9	116.3	100
SMCJ8.0A	SMCJ8.0CA	GDR	BDR	8.0	8.89	9.83	1	13.6	110.3	50
SMCJ8.5A	SMCJ8.5CA	GDT	BDT	8.5	9.44	10.40	1	14.4	104.2	10
SMCJ9.0A	SMCJ9.0CA	GDV	BDV	9.0	10.00	11.10	1	15.4	97.4	5
SMCJ10A	SMCJ10CA	GDX	BDX	10	11.10	12.30	1	17.0	88.2	5
SMCJ11A	SMCJ11CA	GDZ	BDZ	11	12.20	13.50	1	18.2	82.4	5
SMCJ12A	SMCJ12CA	GEE	BEE	12	13.30	14.70	1	19.9	75.4	5
SMCJ13A	SMCJ13CA	GEG	BEG	13	14.40	15.90	1	21.5	69.8	1
SMCJ14A	SMCJ14CA	GEK	BEK	14	15.60	17.20	1	23.2	64.7	1
SMCJ15A	SMCJ15CA	GEM	BEM	15	16.70	18.50	1	24.4	61.5	1
SMCJ16A	SMCJ16CA	GEP	BEP	16	17.80	19.70	1	26.0	57.7	1
SMCJ17A	SMCJ17CA	GER	BER	17	18.90	20.90	1	27.6	54.3	1
SMCJ18A	SMCJ18CA	GET	BET	18	20.00	22.10	1	29.2	51.4	1
SMCJ19A	SMCJ19CA	GEB	BEB	19	21.10	23.30	1	30.8	48.7	1
SMCJ20A	SMCJ20CA	GEV	BEV	20	22.20	24.50	1	32.4	46.3	1
SMCJ22A	SMCJ22CA	GEX	BEX	22	24.40	26.90	1	35.5	42.3	1
SMCJ24A	SMCJ24CA	GEZ	BEZ	24	26.70	29.50	1	38.9	38.6	1
SMCJ26A	SMCJ26CA	GFE	BFE	26	28.90	31.90	1	42.1	35.6	1
SMCJ28A	SMCJ28CA	GFG	BFG	28	31.10	34.40	1	45.4	33.0	1
SMCJ30A	SMCJ30CA	GFK	BFK	30	33.30	36.80	1	48.4	31.0	1
SMCJ33A	SMCJ33CA	GFM	BFM	33	36.70	40.60	1	53.3	28.1	1
SMCJ36A	SMCJ36CA	GFP	BFP	36	40.00	44.20	1	58.1	25.8	1
SMCJ40A	SMCJ40CA	GFR	BFR	40	44.40	49.10	1	64.5	23.3	1
SMCJ43A	SMCJ43CA	GFT	BFT	43	47.80	52.80	1	69.4	21.6	1
SMCJ45A	SMCJ45CA	GFV	BFV	45	50.00	55.30	1	72.7	20.6	1
SMCJ48A	SMCJ48CA	GFX	BFX	48	53.30	58.90	1	77.4	19.4	1
SMCJ51A	SMCJ51CA	GFZ	BFZ	51	56.70	62.70	1	82.4	18.2	1
SMCJ54A	SMCJ54CA	GGE	BGE	54	60.00	66.30	1	87.1	17.2	1
SMCJ58A	SMCJ58CA	GGG	BGG	58	64.40	71.20	1	93.6	16.0	1
SMCJ60A	SMCJ60CA	GGK	BGK	60	66.70	73.70	1	96.8	15.5	1
SMCJ64A	SMCJ64CA	GGM	BGM	64	71.10	78.60	1	103	14.6	1
SMCJ70A	SMCJ70CA	GGP	BGP	70	77.80	86.00	1	113	13.3	1
SMCJ75A	SMCJ75CA	GGR	BGR	75	83.30	92.10	1	121	12.4	1
SMCJ78A	SMCJ78CA	GGT	BGT	78	86.70	95.80	1	126	11.9	1
SMCJ80A	SMCJ80CA	GGB	BGB	80	88.80	97.60	1	130	11.6	1
SMCJ85A	SMCJ85CA	GGV	BGV	85	94.40	104	1	137	10.9	1
SMCJ90A	SMCJ90CA	GGX	BGX	90	100	111	1	146	10.3	1
SMCJ100A	SMCJ100CA	GGZ	BGZ	100	111	123	1	162	9.3	1
SMCJ110A	SMCJ110CA	GHE	BHE	110	122	135	1	177	8.5	1
SMCJ120A	SMCJ120CA	GHG	BHG	120	133	147	1	193	7.8	1
SMCJ130A	SMCJ130CA	GHK	BHK	130	144	159	1	209	7.2	1
SMCJ140A	SMCJ140CA	GHB	BHB	140	155	171	1	227	6.6	1
SMCJ150A	SMCJ150CA	GHM	BHM	150	167	185	1	243	6.2	1
SMCJ160A	SMCJ160CA	GHP	BHP	160	178	197	1	259	5.8	1
SMCJ170A	SMCJ170CA	GHR	BHR	170	189	209	1	275	5.5	1
SMCJ180A	SMCJ180CA	GHT	BHT	180	200	220	1	291	5.1	1
SMCJ190A	SMCJ190CA	GHV	BHV	190	211	232	1	308	4.9	1
SMCJ200A	SMCJ200CA	GHW	BHW	200	224	247	1	324	4.6	1
SMCJ220A	SMCJ220CA	GHX	BHX	220	246	272	1	356	4.2	1
SMCJ250A	SMCJ250CA	GHZ	BHZ	250	279	309	1	405	3.7	1
SMCJ300A	SMCJ300CA	GJE	BJE	300	335	371	1	486	3.1	1
SMCJ350A	SMCJ350CA	GJG	BJG	350	391	432	1	567	2.6	1
SMCJ400A	SMCJ400CA	GJK	BJK	400	447	494	1	648	2.3	1
SMCJ440A	SMCJ440CA	GJM	BJM	440	492	543	1	713	2.1	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.

2. Add suffix " CA " after part number to specify Bi-directional devices.

3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double .

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSORS

1.5KE SERIES TVS / 1500 WATTS / DO-201AE (DO-27)

1.5KE PART NUMBER		Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @10 x 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @ V _{RWM}
UNI-POLAR	BI-POLAR		Min. (V)	Max. (V)	I _T (mA)			
1.5KE6.8A	1.5KE6.8CA	5.8	6.46	7.14	10	10.5	143.00	1000
1.5KE7.5A	1.5KE7.5CA	6.4	7.13	7.88	10	11.3	133.00	500
1.5KE8.2A	1.5KE8.2CA	7.0	7.79	8.61	10	12.1	124.00	200
1.5KE9.1A	1.5KE9.1CA	7.8	8.65	9.56	1	13.4	112.00	50
1.5KE10A	1.5KE10CA	8.6	9.50	10.50	1	14.5	103.00	10
1.5KE11A	1.5KE11CA	9.4	10.45	11.55	1	15.6	96.20	5
1.5KE12A	1.5KE12CA	10.2	11.40	12.60	1	16.7	89.80	5
1.5KE13A	1.5KE13CA	11.1	12.35	13.65	1	18.2	82.40	1
1.5KE15A	1.5KE15CA	12.8	14.25	15.75	1	21.2	70.80	1
1.5KE16A	1.5KE16CA	13.6	15.20	16.80	1	22.5	66.70	1
1.5KE18A	1.5KE18CA	15.3	17.10	18.90	1	25.2	59.50	1
1.5KE20A	1.5KE20CA	17.1	19.00	21.00	1	27.7	54.20	1
1.5KE22A	1.5KE22CA	18.8	20.90	23.10	1	30.6	49.00	1
1.5KE24A	1.5KE24CA	20.5	22.80	25.20	1	33.2	45.20	1
1.5KE27A	1.5KE27CA	23.1	25.65	28.35	1	37.5	40.00	1
1.5KE30A	1.5KE30CA	25.6	28.50	31.50	1	41.4	36.20	1
1.5KE33A	1.5KE33CA	28.2	31.35	34.65	1	45.7	32.80	1
1.5KE36A	1.5KE36CA	30.8	34.20	37.80	1	49.9	30.10	1
1.5KE39A	1.5KE39CA	33.3	37.05	40.95	1	53.9	27.80	1
1.5KE43A	1.5KE43CA	36.8	40.85	45.15	1	59.3	25.30	1
1.5KE47A	1.5KE47CA	40.2	44.65	49.35	1	64.8	23.10	1
1.5KE51A	1.5KE51CA	43.6	48.45	53.55	1	70.1	21.40	1
1.5KE56A	1.5KE56CA	47.8	53.20	58.80	1	77.0	19.50	1
1.5KE62A	1.5KE62CA	53.0	58.90	65.10	1	85.0	17.60	1
1.5KE68A	1.5KE68CA	58.1	64.60	71.40	1	92.0	16.30	1
1.5KE75A	1.5KE75CA	64.1	71.25	78.75	1	103.0	14.60	1
1.5KE82A	1.5KE82CA	70.1	77.90	86.10	1	113.0	13.30	1
1.5KE91A	1.5KE91CA	77.8	86.45	95.55	1	125.0	12.00	1
1.5KE100A	1.5KE100CA	85.5	95.00	105.00	1	137.0	10.90	1
1.5KE110A	1.5KE110CA	94.0	104.50	115.50	1	152.0	9.87	1
1.5KE120A	1.5KE120CA	102.0	114.00	126.00	1	165.0	9.09	1
1.5KE130A	1.5KE130CA	111.0	123.50	136.50	1	179.0	8.38	1
1.5KE150A	1.5KE150CA	128.0	142.50	157.50	1	207.0	7.25	1
1.5KE160A	1.5KE160CA	136.0	152.00	168.00	1	219.0	6.85	1
1.5KE170A	1.5KE170CA	145.0	161.50	178.50	1	234.0	6.41	1
1.5KE180A	1.5KE180CA	154.0	171.00	189.00	1	246.0	6.10	1
1.5KE200A	1.5KE200CA	171.0	190.00	210.00	1	274.0	5.47	1
1.5KE220A	1.5KE220CA	185.0	209.00	231.00	1	328.0	4.57	1
1.5KE250A	1.5KE250CA	214.0	237.50	262.50	1	344.0	4.36	1
1.5KE300A	1.5KE300CA	256.0	285.00	315.00	1	414.0	3.62	1
1.5KE350A	1.5KE350CA	299.0	332.50	367.50	1	482.0	3.11	1
1.5KE380A	1.5KE380CA	325.0	361.00	399.00	1	524.0	2.86	1
1.5KE400A	1.5KE400CA	342.0	380.00	420.00	1	548.0	2.74	1
1.5KE440A	1.5KE440CA	376.0	418.00	462.00	1	602.0	2.49	1
1.5KE500A	1.5KE500CA	428.0	475.00	525.00	1	690.0	2.17	1
1.5KE520A	1.5KE520CA	445.0	494.00	546.00	1	718.0	2.09	1
1.5KE550A	1.5KE550CA	470.0	522.50	577.50	1	759.0	1.98	1
1.5KE600A	1.5KE600CA	513.0	570.00	630.00	1	828.0	1.81	1

NOTE : 1. Suffix " A " denotes 5% tolerance device.
2. Add suffix " CA " after part number to specify Bi-directional devices.
3. For Bi-Directional devices having V_R of 10 volts and under, the I_R limit is double .

ZENER DIODES

200mW / SOD-523 / Halogen-free



TYPE	Zener Voltage Range (NOTE)				Max. Zener Impedance			Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{zt} @ I _{ZT}	Z _{zk} @ I _{ZK}	I _{ZK}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μ A)	(V)		
MM5Z2V0H	2.00	1.80	2.15	5	100	-	-	120	0.5	RD	
MM5Z2V2H	2.20	2.08	2.33	5	100	-	-	120	0.7	RE	
MM5Z2V4H	2.40	2.20	2.60	5	100	1000	1	120	1.0	Z7	
MM5Z2V7H	2.70	2.50	2.90	5	100	1000	1	120	1.0	A8	
MM5Z3V0H	3.00	2.80	3.20	5	100	1000	1	50	1.0	B8	
MM5Z3V3H	3.30	3.10	3.50	5	95	1000	1	20	1.0	C8	
MM5Z3V6H	3.60	3.40	3.80	5	90	1000	1	10	1.0	D8	
MM5Z3V9H	3.90	3.70	4.10	5	90	1000	1	5.0	1.0	E8	
MM5Z4V3H	4.30	4.00	4.60	5	90	1000	1	5.0	1.0	F8	
MM5Z4V7H	4.70	4.40	5.00	5	80	800	1	2.0	1.0	G8	
MM5Z5V1H	5.10	4.80	5.40	5	60	500	1	2.0	1.5	H8	
MM5Z5V6H	5.60	5.20	6.00	5	40	200	1	1.0	2.5	I8	
MM5Z6V2H	6.20	5.80	6.60	5	10	100	1	1.0	3.0	J8	
MM5Z6V8H	6.80	6.40	7.20	5	15	160	1	0.5	3.5	K8	
MM5Z7V5H	7.50	7.00	7.90	5	15	160	1	0.5	4.0	L8	
MM5Z8V2H	8.20	7.70	8.70	5	15	160	1	0.5	5.0	M8	
MM5Z9V1H	9.10	8.50	9.60	5	15	160	1	0.5	6.0	N8	
MM5Z10H	10.00	9.40	10.60	5	20	160	1	0.1	7.0	O8	
MM5Z11H	11.00	10.40	11.60	5	20	160	1	0.1	8.0	P8	
MM5Z12H	12.00	11.40	12.70	5	25	80	1	0.1	9.0	Q8	
MM5Z13H	13.25	12.40	14.10	5	30	80	1	0.1	10	R8	
MM5Z15H	15.00	14.30	15.80	5	30	80	1	0.1	11	S8	
MM5Z16H	16.20	15.30	17.10	2	40	80	1	0.1	12	T8	
MM5Z18H	18.00	16.80	19.10	2	45	80	1	0.1	13	U8	
MM5Z20H	20.00	18.80	21.20	2	55	100	1	0.1	15	V8	
MM5Z22H	22.00	20.80	23.30	2	55	100	1	0.1	17	W8	
MM5Z24H	24.20	22.80	25.60	2	70	120	1	0.1	19	X8	
MM5Z27H	27.00	25.10	28.90	2	80	300	1	0.1	21	Y8	
MM5Z30H	30.00	28.00	32.00	2	80	300	1	0.1	23	Z8	
MM5Z33H	33.00	31.00	35.00	2	80	300	1	0.1	25	A9	
MM5Z36H	36.00	34.00	38.00	2	90	500	1	0.1	27	B9	
MM5Z39H	39.00	37.00	41.00	2	130	500	1	2.0	30	C9	
MM5Z43H	43.00	40.00	46.00	1	150	500	1	2.0	33	D9	
MM5Z47H	47.00	44.00	50.00	1	170	500	1	2.0	36	E9	
MM5Z51H	51.00	48.00	54.00	1	180	500	1	1.0	39	F9	
MM5Z56H	56.00	52.00	60.00	1	200	500	1	1.0	43	G9	
MM5Z62H	62.00	58.00	66.00	1	215	500	1	0.2	47	H9	
MM5Z68H	68.00	64.00	72.00	1	240	500	1	0.2	52	I9	
MM5Z75H	75.00	70.00	79.00	1	255	500	1	0.2	57	J9	

NOTE : Tested with pulses tp = 20ms.

ZENER DIODES

200mW / SOD-523 / **Halogen-free**
Tolerance approximately $\pm 2\%$



TYPE	Zener Voltage Range (NOTE)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{ZT}	I _{ZT}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	(mA)	(μA)	(V)		
MM5Z2B4H	2.4	2.352	2.448	5	100	5	120	1.0	XY	
MM5Z2B7H	2.7	2.646	2.754	5	110	5	120	1.0	XZ	
MM5Z3B0H	3.0	2.940	3.060	5	120	5	50	1.0	FR	
MM5Z3B3H	3.3	3.234	3.366	5	130	5	20	1.0	FX	
MM5Z3B6H	3.6	3.528	3.672	5	130	5	10	1.0	FY	
MM5Z3B9H	3.9	3.822	3.978	5	130	5	5	1.0	FZ	
MM5Z4B3H	4.3	4.214	4.386	5	130	5	5	1.0	HA	
MM5Z4B7H	4.7	4.606	4.794	5	130	5	2	1.0	HB	
MM5Z5B1H	5.1	4.998	5.202	5	130	5	2	1.5	HC	
MM5Z5B6H	5.6	5.488	5.712	5	80	5	1	2.5	HD	
MM5Z6B2H	6.2	6.076	6.324	5	50	5	1	3.0	HE	
MM5Z6B8H	6.8	6.664	6.936	5	30	5	0.5	3.5	HF	
MM5Z7B5H	7.5	7.350	7.650	5	30	5	0.5	4	HH	
MM5Z8B2H	8.2	8.036	8.364	5	30	5	0.5	5	HJ	
MM5Z9B1H	9.1	8.918	9.282	5	30	5	0.5	6	HK	
MM5ZB10H	10	9.800	10.200	5	30	5	0.1	7	HM	
MM5ZB11H	11	10.780	11.220	5	30	5	0.1	8	HN	
MM5ZB12H	12	11.760	12.240	5	35	5	0.1	9	HP	
MM5ZB13H	13	12.740	13.260	5	35	5	0.1	10	HR	
MM5ZB15H	15	14.700	15.300	5	40	5	0.1	11	HX	
MM5ZB16H	16	15.680	16.320	5	40	5	0.1	12	HY	
MM5ZB18H	18	17.640	18.360	5	45	5	0.1	13	HZ	
MM5ZB20H	20	19.600	20.400	5	50	5	0.1	15	JA	
MM5ZB22H	22	21.560	22.440	5	55	5	0.1	17	JB	
MM5ZB24H	24	23.520	24.480	5	60	5	0.1	19	JC	
MM5ZB27H	27	26.460	27.540	5	70	2	0.1	21	JD	
MM5ZB30H	30	29.400	30.600	5	80	2	0.1	23	JE	
MM5ZB33H	33	32.340	33.660	5	80	2	0.1	25	JF	
MM5ZB36H	36	35.280	36.720	5	90	2	0.1	27	JH	
MM5ZB39H	39	38.220	39.780	2.5	100	2	2.0	30	JJ	
MM5ZB43H	43	42.140	43.860	2.5	130	2	2.0	33	JK	
MM5ZB47H	47	46.060	47.940	2.5	150	2	2.0	36	JM	

NOTE : V_Z is tested with pulses (20 ms)

ZENER DIODES

300mW / SOD-323 (Flat lead) / Halogen-free

Tolerance approximately $\pm 5\%$



TYPE	Zener Voltage Range (NOTE 1, 2)				Max. Zener Impedance (NOTE 3)			Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{YT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μA)	(V)		
MM3Z5221BH	2.4	2.28	2.52	20	30	1200	0.25	100	1	A1	
MM3Z5223BH	2.7	2.57	2.84	20	30	1300	0.25	75	1	B1	
MM3Z5225BH	3	2.85	3.15	20	29	1600	0.25	50	1	C1	
MM3Z5226BH	3.3	3.14	3.47	20	28	1600	0.25	25	1	D1	
MM3Z5227BH	3.6	3.42	3.78	20	24	1700	0.25	15	1	E1	
MM3Z5228BH	3.9	3.71	4.10	20	23	1900	0.25	10	1	F1	
MM3Z5229BH	4.3	4.09	4.52	20	22	2000	0.25	5	1	H1	
MM3Z5230BH	4.7	4.47	4.94	20	19	1900	0.25	5	2	J1	
MM3Z5231BH	5.1	4.85	5.36	20	17	1600	0.25	5	2	K1	
MM3Z5232BH	5.6	5.32	5.88	20	11	1600	0.25	5	3	M1	
MM3Z5234BH	6.2	5.89	6.51	20	7	1000	0.25	5	4	N1	
MM3Z5235BH	6.8	6.46	7.14	20	5	750	0.25	3	5	P1	
MM3Z5236BH	7.5	7.13	7.88	20	6	500	0.25	3	6	R1	
MM3Z5237BH	8.2	7.79	8.61	20	8	500	0.25	3	6.5	X1	
MM3Z5239BH	9.1	8.65	9.56	20	10	600	0.25	3	7	Y1	
MM3Z5240BH	10	9.50	10.50	20	17	600	0.25	3	8	Z1	
MM3Z5241BH	11	10.45	11.55	20	22	600	0.25	2	8.4	A2	
MM3Z5242BH	12	11.40	12.60	20	30	600	0.25	1	9.1	B2	
MM3Z5243BH	13	12.35	13.65	9.5	13	600	0.25	0.5	9.9	C2	
MM3Z5245BH	15	14.25	15.75	8.5	16	600	0.25	0.1	11	D2	
MM3Z5246BH	16	15.20	16.80	7.8	17	600	0.25	0.1	12	E2	
MM3Z5248BH	18	17.10	18.90	7.0	21	600	0.25	0.1	14	F2	
MM3Z5249BH	19	18.05	19.95	6.6	23	600	0.25	0.1	14	N9	
MM3Z5250BH	20	19.00	21.00	6.2	25	600	0.25	0.1	15	H2	
MM3Z5251BH	22	20.90	23.10	5.6	29	600	0.25	0.1	17	J2	
MM3Z5252BH	24	22.80	25.20	5.2	33	600	0.25	0.1	18	K2	
MM3Z5253BH	25	23.75	26.25	5.0	35	600	0.25	0.1	19	P9	
MM3Z5254BH	27	25.65	28.35	4.6	41	600	0.25	0.1	21	M2	
MM3Z5256BH	30	28.50	31.50	4.2	49	600	0.25	0.1	23	N2	
MM3Z5257BH	33	31.35	34.65	3.8	58	700	0.25	0.1	25	P2	
MM3Z5258BH	36	34.20	37.80	3.4	70	700	0.25	0.1	27	R2	
MM3Z5259BH	39	37.05	40.95	3.2	80	800	0.25	0.1	30	X2	
MM3Z5260BH	43	40.85	45.15	3.0	93	900	0.25	0.1	33	Y2	
MM3Z5261BH	47	44.65	49.35	2.7	105	1000	0.25	0.1	36	Z2	
MM3Z5262BH	51	48.45	53.55	2.5	125	1100	0.25	0.1	39	A3	
MM3Z5263BH	56	53.20	58.80	2.2	150	1300	0.25	0.1	43	B3	
MM3Z5265BH	62	58.90	65.10	2.0	185	1400	0.25	0.1	47	C3	
MM3Z5266BH	68	64.60	71.40	1.8	230	1600	0.25	0.1	52	D3	
MM3Z5267BH	75	71.25	78.75	1.7	270	1700	0.25	0.1	56	E3	

NOTES : (1) V_Z is tested with pulses (20 ms)

(2) Nominal Zener voltage is measured with the device junction in thermal equilibrium at T_L = 30°C $\pm$ 1°C

(3) Z_{YT} and Z_{ZK} are measured by dividing the AC voltage drop across the device by the AC current applied.

The specified limits are for I_{Z(AC)} = 0.1 I_{Z(DC)} with the AC frequency = 1KHz.

ZENER DIODES

300mW / SOD-323 (Flat lead) / **Halogen-free**
Tolerance approximately $\pm 2\%$



TYPE	Zener Voltage Range (NOTE)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{ZT}	I _{ZT}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	(mA)	(μ A)	(V)		
MM3Z2B4H	2.4	2.352	2.448	5	100	5	120	1.0	DN	
MM3Z2B7H	2.7	2.646	2.754	5	110	5	120	1.0	DP	
MM3Z3B0H	3.0	2.940	3.060	5	120	5	50	1.0	DR	
MM3Z3B3H	3.3	3.234	3.366	5	130	5	20	1.0	DX	
MM3Z3B6H	3.6	3.528	3.672	5	130	5	10	1.0	DY	
MM3Z3B9H	3.9	3.822	3.978	5	130	5	5.0	1.0	DZ	
MM3Z4B3H	4.3	4.214	4.386	5	130	5	5.0	1.0	Z0	
MM3Z4B7H	4.7	4.606	4.794	5	130	5	2.0	1.0	EB	
MM3Z5B1H	5.1	4.998	5.202	5	130	5	2.0	1.5	EC	
MM3Z5B6H	5.6	5.488	5.712	5	80	5	1.0	2.5	7P	
MM3Z6B2H	6.2	6.076	6.324	5	50	5	1.0	3.0	EE	
MM3Z6B8H	6.8	6.664	6.936	5	30	5	0.5	3.5	EF	
MM3Z7B5H	7.5	7.350	7.650	5	30	5	0.5	4	EH	
MM3Z8B2H	8.2	8.036	8.364	5	30	5	0.5	5	EJ	
MM3Z9B1H	9.1	8.918	9.282	5	30	5	0.5	6	EK	
MM3ZB10H	10	9.800	10.200	5	30	5	0.1	7	EM	
MM3ZB11H	11	10.780	11.220	5	30	5	0.1	8	EN	
MM3ZB12H	12	11.760	12.240	5	35	5	0.1	9	EP	
MM3ZB13H	13	12.740	13.260	5	35	5	0.1	10	ER	
MM3ZB15H	15	14.700	15.300	5	40	5	0.1	11	EX	
MM3ZB16H	16	15.680	16.320	5	40	5	0.1	12	EY	
MM3ZB18H	18	17.640	18.360	6	45	5	0.1	13	EZ	
MM3ZB20H	20	19.600	20.400	5	50	5	0.1	15	FA	
MM3ZB22H	22	21.560	22.440	5	55	5	0.1	17	FB	
MM3ZB24H	24	23.520	24.480	5	60	5	0.1	19	FC	
MM3ZB27H	27	26.460	27.540	5	70	2	0.1	21	FD	
MM3ZB30H	30	29.400	30.600	5	80	2	0.1	23	FE	
MM3ZB33H	33	32.340	33.660	5	80	2	0.1	25	FF	
MM3ZB36H	36	35.280	36.720	5	90	2	0.1	27	FH	
MM3ZB39H	39	38.220	39.780	2.5	100	2	2.0	30	FJ	
MM3ZB43H	43	42.140	43.860	2.5	130	2	2.0	33	XJ	
MM3ZB47H	47	46.060	47.940	2.5	150	2	2.0	36	XK	

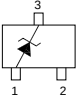
NOTE : V_Z is tested with pulses (20 ms)

ZENER DIODES



350mW / SOT-23 / **Halogen-free**

Electrical Characteristics (Ta = 25°C unless otherwise noted, VF < 0.9V at IF = 10mA)

TYPE	Zener Voltage Range (NOTE)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{VT}	I _{ZT}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Max. (Ω)	(mA)	(μA)	(V)		
BZX84C3V0H	3	2.8	3.2	5	95	5	10	1	E8	
BZX84C3V3H	3.3	3.1	3.5	5	95	5	5	1	F8	
BZX84C3V6H	3.6	3.4	3.8	5	90	5	5	1	H8	
BZX84C3V9H	3.9	3.7	4.1	5	90	5	3	1	J8	
BZX84C4V3H	4.3	4	4.6	5	90	5	3	1	K8	
BZX84C4V7H	4.7	4.4	5	5	80	5	3	2	M8	
BZX84C5V1H	5.1	4.8	5.4	5	60	5	2	2	N8	
BZX84C5V6H	5.6	5.2	6	5	40	5	1	2	P8	
BZX84C6V2H	6.2	5.8	6.6	5	10	5	3	4	R8	
BZX84C6V8H	6.8	6.4	7.2	5	15	5	2	4	X8	
BZX84C7V5H	7.5	7	7.9	5	15	5	1	5	Y8	
BZX84C8V2H	8.2	7.7	8.7	5	15	5	0.7	5	Z8	
BZX84C9V1H	9.1	8.5	9.6	5	15	5	0.5	6	A9	
BZX84C10H	10	9.4	10.6	5	20	5	0.2	7	B9	
BZX84C11H	11	10.4	11.6	5	20	5	0.1	8	C9	
BZX84C12H	12	11.4	12.7	5	25	5	0.1	8	D9	
BZX84C13H	13	12.4	14.1	5	30	5	0.1	8	E9	
BZX84C15H	15	13.8	15.6	6	30	5	0.05	10.5	F9	
BZX84C16H	16	15.3	17.1	5	40	5	0.05	11.2	H9	
BZX84C18H	18	16.8	19.1	5	45	5	0.05	12.6	J9	
BZX84C20H	20	18.8	21.2	5	55	5	0.05	14	K9	
BZX84C22H	22	20.8	23.3	5	55	5	0.05	15.4	M9	
BZX84C24H	24	22.8	25.6	5	70	5	0.05	16.8	N9	
BZX84C27H	27	25.1	28.9	2	80	2	0.05	18.9	P9	
BZX84C30H	30	28	32	2	80	2	0.05	21	R9	
BZX84C33H	33	31	35	2	80	2	0.05	23.1	X9	
BZX84C36H	36	34	38	2	90	2	0.05	25.2	Y9	
BZX84C39H	39	37	41	2	130	2	0.05	27.3	Z9	
BZX84C43H	43	40	46	2	150	2	0.05	30.1	A0	
BZX84C47H	47	44	50	2	170	2	0.05	32.9	B0	

NOTE : Tested with pulses tp = 20 ms.

ZENER DIODES



350mW / SOT-23 / Halogen-free

Electrical Characteristics (Ta = 25°C unless otherwise noted)

TYPE	Zener Voltage Range (NOTE)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	Vz @ IzT				ZzT	IzT	IR @ VR			
	Nom. (V)	Min. (V)	Max. (V)	IzT (mA)	Ω	(mA)	(μA)	(V)		
BZX84C3V3CAH	3.3	3.1	3.5	5	95	5	5	1	MX	
BZX84C3V6CAH	3.6	3.4	3.8	5	90	5	5	1	MY	
BZX84C3V9CAH	3.9	3.7	4.1	5	90	5	3	1	MZ	
BZX84C4V3CAH	4.3	4.0	4.6	5	90	5	3	1	NA	
BZX84C4V7CAH	4.7	4.4	5.0	5	80	5	3	2	NB	
BZX84C5V1CAH	5.1	4.8	5.4	5	60	5	2	2	NC	
BZX84C5V6CAH	5.6	5.2	6.0	5	40	5	1	2	ND	
BZX84C6V2CAH	6.2	5.8	6.6	5	10	5	3	4	NE	
BZX84C6V8CAH	6.8	6.4	7.2	5	15	5	2	4	NF	
BZX84C7V5CAH	7.5	7.0	7.9	5	15	5	1	5	NH	
BZX84C8V2CAH	8.2	7.7	8.7	5	15	5	0.7	5	NJ	
BZX84C9V1CAH	9.1	8.5	9.6	5	15	5	0.5	6	NK	
BZX84C10CAH	10	9.4	10.6	5	20	5	0.2	7	NM	
BZX84C11CAH	11	10.4	11.6	5	20	5	0.1	8	NN	
BZX84C12CAH	12	11.4	12.7	5	25	5	0.1	8	NP	
BZX84C13CAH	13	12.4	14.1	5	30	5	0.1	8	NX	
BZX84C15CAH	15	14.3	15.8	5	30	5	0.05	10.5	NY	
BZX84C16CAH	16	15.3	17.1	5	40	5	0.05	11.2	NZ	
BZX84C18CAH	18	16.8	19.1	6	45	6	0.05	12.6	PA	
BZX84C20CAH	20	18.8	21.2	5	55	5	0.05	14	PB	
BZX84C22CAH	22	20.8	23.3	5	55	5	0.05	15.4	PC	
BZX84C24CAH	24	22.8	25.6	5	70	5	0.05	16.8	PD	
BZX84C27CAH	27	25.1	28.9	2	80	2	0.05	18.9	PE	
BZX84C30CAH	30	28.0	32.0	2	80	2	0.05	21	PF	
BZX84C33CAH	33	31.0	35.0	2	80	2	0.05	23.1	PH	
BZX84C36CAH	36	34.0	38.0	2	90	2	0.05	25.2	PJ	
BZX84C39CAH	39	37.0	41.0	2	130	2	0.05	27.3	PM	
BZX84C43CAH	43	40.0	46.0	2	150	2	0.05	30.1	PN	
BZX84C47CAH	47	44.0	50.0	2	170	2	0.05	32.9	PP	

NOTE : Tested with pulses tp = 20 ms.

ZENER DIODES



350mW / SOT-23 / **Halogen-free**

Electrical Characteristics (Ta = 25°C unless otherwise noted, Vr < 0.9V at If = 10mA)

TYPE	Zener Voltage Range (NOTE)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{ZT}	I _{ZT}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	(mA)	(μ A)	(V)		
BZX84C3V3CCH	3.3	3.1	3.5	5	95	5	5	1	JM	
BZX84C3V6CCH	3.6	3.4	3.8	5	90	5	5	1	JN	
BZX84C3V9CCH	3.9	3.7	4.1	5	90	5	3	1	JP	
BZX84C4V3CCH	4.3	4.0	4.6	5	90	5	3	1	JR	
BZX84C4V7CCH	4.7	4.4	5.0	5	80	5	3	2	JX	
BZX84C5V1CCH	5.1	4.8	5.4	5	60	5	2	2	JY	
BZX84C5V6CCH	5.6	5.2	6.0	5	40	5	1	2	JZ	
BZX84C6V2CCH	6.2	5.8	6.6	5	10	5	3	4	KA	
BZX84C6V8CCH	6.8	6.4	7.2	5	15	5	2	4	KB	
BZX84C7V5CCH	7.5	7.0	7.9	5	15	5	1	5	KC	
BZX84C8V2CCH	8.2	7.7	8.7	5	15	5	0.7	5	KD	
BZX84C9V1CCH	9.1	8.5	9.6	5	15	5	0.5	6	KE	
BZX84C10CCH	10	9.4	10.6	5	20	5	0.2	7	KF	
BZX84C11CCH	11	10.4	11.6	5	20	5	0.1	8	KH	
BZX84C12CCH	12	11.4	12.7	5	25	5	0.1	8	KJ	
BZX84C13CCH	13	12.4	14.1	5	30	5	0.1	8	KK	
BZX84C15CCH	15	14.3	15.8	5	30	5	0.05	10.5	KM	
BZX84C16CCH	16	15.3	17.1	5	40	5	0.05	11.2	KN	
BZX84C18CCH	18	16.8	19.1	6	45	6	0.05	12.6	KP	
BZX84C20CCH	20	18.8	21.2	5	55	5	0.05	14.0	KR	
BZX84C22CCH	22	20.8	23.3	5	55	5	0.05	15.4	KX	
BZX84C24CCH	24	22.8	25.6	5	70	5	0.05	16.8	KY	
BZX84C27CCH	27	25.1	28.9	2	80	2	0.05	18.9	KZ	
BZX84C30CCH	30	28.0	32.0	2	80	2	0.05	21.0	MA	
BZX84C33CCH	33	31.0	35.0	2	80	2	0.05	23.1	MB	
BZX84C36CCH	36	34.0	38.0	2	90	2	0.05	25.2	MC	
BZX84C39CCH	39	37.0	41.0	2	130	2	0.05	27.3	MD	
BZX84C43CCH	43	40.0	46.0	2	150	2	0.05	30.1	ME	
BZX84C47CCH	47	44.0	50.0	2	170	2	0.05	32.9	MF	

NOTE : Tested with pulses tp = 20 ms.

ZENER DIODES

500mW / SOD-123 (Flat lead) / **Halogen-free**

Tolerance approximately $\pm 5\%$



TYPE	Zener Voltage Range (NOTE 1, 2)				Max. Zener Impedance (NOTE 3)			Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{TT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μA)	(V)		
MM1Z5221BH	2.4	2.28	2.52	20	30	1200	0.25	100	1	A4	
MM1Z5223BH	2.7	2.57	2.84	20	30	1300	0.25	75	1	B4	
MM1Z5225BH	3.0	2.85	3.15	20	29	1600	0.25	50	1	C4	
MM1Z5226BH	3.3	3.14	3.47	20	28	1600	0.25	25	1	D4	
MM1Z5227BH	3.6	3.42	3.78	20	24	1700	0.25	15	1	E4	
MM1Z5228BH	3.9	3.71	4.10	20	23	1900	0.25	10	1	F4	
MM1Z5229BH	4.3	4.09	4.52	20	22	2000	0.25	5	1	H4	
MM1Z5230BH	4.7	4.47	4.94	20	19	1900	0.25	5	2	J4	
MM1Z5231BH	5.1	4.85	5.36	20	17	1600	0.25	5	2	K4	
MM1Z5232BH	5.6	5.32	5.88	20	11	1600	0.25	5	3	M4	
MM1Z5234BH	6.2	5.89	6.51	20	7	1000	0.25	5	4	N4	
MM1Z5235BH	6.8	6.46	7.14	20	5	750	0.25	3	5	P4	
MM1Z5236BH	7.5	7.13	7.88	20	6	500	0.25	3	6	R4	
MM1Z5237BH	8.2	7.79	8.61	20	8	500	0.25	3	6.5	X4	
MM1Z5239BH	9.1	8.65	9.56	20	10	600	0.25	3	7	Y4	
MM1Z5240BH	10	9.50	10.50	20	17	600	0.25	3	8	Z4	
MM1Z5241BH	11	10.45	11.55	20	22	600	0.25	2	8.4	A5	
MM1Z5242BH	12	11.40	12.60	20	30	600	0.25	1	9.1	B5	
MM1Z5243BH	13	12.35	13.65	9.5	13	600	0.25	0.5	9.9	C5	
MM1Z5245BH	15	14.25	15.75	8.5	16	600	0.25	0.1	11	D5	
MM1Z5246BH	16	15.20	16.80	7.8	17	600	0.25	0.1	12	E5	
MM1Z5248BH	18	17.10	18.90	7.0	21	600	0.25	0.1	14	F5	
MM1Z5249BH	19	18.05	19.95	6.6	23	600	0.25	0.1	14	K9	
MM1Z5250BH	20	19.00	21.00	6.2	25	600	0.25	0.1	15	H5	
MM1Z5251BH	22	20.90	23.10	5.6	29	600	0.25	0.1	17	J5	
MM1Z5252BH	24	22.80	25.20	5.2	33	600	0.25	0.1	18	K5	
MM1Z5253BH	25	23.75	26.25	5.0	35	600	0.25	0.1	19	M9	
MM1Z5254BH	27	25.65	28.35	4.6	41	600	0.25	0.1	21	M5	
MM1Z5256BH	30	28.50	31.50	4.2	49	600	0.25	0.1	23	N5	
MM1Z5257BH	33	31.35	34.65	3.8	58	700	0.25	0.1	25	P5	
MM1Z5258BH	36	34.20	37.80	3.4	70	700	0.25	0.1	27	R5	
MM1Z5259BH	39	37.05	40.95	3.2	80	800	0.25	0.1	30	X5	
MM1Z5260BH	43	40.85	45.15	3.0	93	900	0.25	0.1	33	Y5	
MM1Z5261BH	47	44.65	49.35	2.7	105	1000	0.25	0.1	36	Z5	
MM1Z5262BH	51	48.45	53.55	2.5	125	1100	0.25	0.1	39	A6	
MM1Z5263BH	56	53.20	58.80	2.2	150	1300	0.25	0.1	43	B6	
MM1Z5265BH	62	58.90	65.10	2.0	185	1400	0.25	0.1	47	C6	
MM1Z5266BH	68	64.60	71.40	1.8	230	1600	0.25	0.1	52	D6	
MM1Z5267BH	75	71.25	78.75	1.7	270	1700	0.25	0.1	56	E6	

NOTES : (1) V_Z is tested with pulses (20 ms)

(2) Nominal Zener voltage is measured with the device junction in thermal equilibrium at T_L = 30°C $\pm$ 1°C

(3) Z_{TT} and Z_{ZK} are measured by dividing the AC voltage drop across the device by the AC current applied.

The specified limits are for I_{Z(AC)} = 0.1 I_{Z(DC)} with the AC frequency = 1KHz.

ZENER DIODES

500mW / SOD-123 (Flat lead) / **Halogen-free**
Tolerance approximately $\pm 2\%$



TYPE	Zener Voltage Range (NOTE 1)				Dynamic Impedance		Max. Reverse Leakage Current		Marking	Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{zT}	I _{zT}	I _R @ V _R			
	Nom. (V)	Min. (V)	Max. (V)	I _{zT} (mA)	Ω	(mA)	(μ A)	(V)		
MM1Z2B7H	2.7	2.646	2.754	5	110	5	120	1.0	5Z1	
MM1Z3B0H	3.0	2.940	3.060	5	120	5	50	1.0	6A1	
MM1Z3B3H	3.3	3.234	3.366	5	130	5	20	1.0	6B1	
MM1Z3B6H	3.6	3.528	3.672	5	130	5	10	1.0	6C1	
MM1Z3B9H	3.9	3.822	3.978	5	130	5	5.0	1.0	6D1	
MM1Z4B3H	4.3	4.214	4.386	5	130	5	5.0	1.0	6E1	
MM1Z4B7H	4.7	4.606	4.794	5	130	5	2.0	1.0	6F1	
MM1Z5B1H	5.1	4.998	5.202	5	130	5	2.0	1.5	6G1	
MM1Z5B6H	5.6	5.488	5.712	5	80	5	1.0	2.5	6H1	
MM1Z6B2H	6.2	6.076	6.324	5	50	5	1.0	3.0	6J1	
MM1Z6B8H	6.8	6.664	6.936	5	30	5	0.5	3.5	6K1	
MM1Z7B5H	7.5	7.350	7.650	5	30	5	0.5	4.0	6L1	
MM1Z8B2H	8.2	8.036	8.364	5	30	5	0.5	5.0	6M1	
MM1Z9B1H	9.1	8.918	9.282	5	30	5	0.5	6.0	6N1	
MM1ZB10H	10	9.800	10.200	5	30	5	0.1	7.0	6P1	
MM1ZB11H	11	10.780	11.220	5	30	5	0.1	8.0	6Q1	
MM1ZB12H	12	11.760	12.240	5	35	5	0.1	9.0	6R1	
MM1ZB13H	13	12.740	13.260	5	35	5	0.1	10.0	6S1	
MM1ZB15H	15	14.700	15.300	5	40	5	0.1	11.0	6T1	
MM1ZB16H	16	15.680	16.320	5	40	5	0.1	12.0	6U1	
MM1ZB18H	18	17.640	18.360	5	45	5	0.1	13.0	6W1	
MM1ZB20H	20	19.600	20.400	5	50	5	0.1	15.0	6X1	
MM1ZB22H	22	21.560	22.440	5	55	5	0.1	17.0	6Y1	
MM1ZB24H	24	23.520	24.480	5	60	5	0.1	19.0	6Z1	
MM1ZB27H	27	26.460	27.540	5	70	2	0.1	21.0	7A1	
MM1ZB30H	30	29.400	30.600	5	80	2	0.1	23.0	7B1	
MM1ZB33H	33	32.340	33.660	5	80	2	0.1	25.0	7C1	
MM1ZB36H	36	35.280	36.720	5	90	2	0.1	27.0	7D1	
MM1ZB39H	39	38.220	39.780	2.5	100	2	2.0	30.0	7E1	
MM1ZB43H	43	42.140	43.860	2.5	130	2	2.0	33.0	7F1	
MM1ZB47H	47	46.060	47.940	2.5	150	2	2.0	36.0	7G1	
MM1ZB51H	51	49.980	52.020	2.5	180	2	1.0	39.0	7H1	
MM1ZB56H	56	54.880	57.120	2.5	180	2	1.0	43.0	7J1	
MM1ZB62H	62	60.760	63.240	2.5	200	2	0.2	47.0	7K1	
MM1ZB68H	68	66.640	69.360	2.5	250	2	0.2	52.0	7L1	
MM1ZB75H	75	73.500	76.500	2.5	300	2	0.2	57.0	7M1	

NOTE : V_Z is tested with pulses (20 ms)

ZENER DIODES

500mW / LL-34 (SOD-80)



TYPE	Zener Voltage Range (NOTE)				Max. Zener Impedance			Max. Reverse Leakage Current		Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{VT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μA)	(V)	
BZT52C2V4	2.4	2.2	2.6	5	100	600	1.0	50	1.0	
BZT52C2V7	2.7	2.5	2.9	5	100	600	1.0	20	1.0	
BZT52C3V0	3.0	2.8	3.2	5	95	600	1.0	10	1.0	
BZT52C3V3	3.3	3.1	3.5	5	95	600	1.0	5	1.0	
BZT52C3V6	3.6	3.4	3.8	5	90	600	1.0	5	1.0	
BZT52C3V9	3.9	3.7	4.1	5	90	600	1.0	3	1.0	
BZT52C4V3	4.3	4.0	4.6	5	90	600	1.0	3	1.0	
BZT52C4V7	4.7	4.4	5.0	5	80	500	1.0	3	2.0	
BZT52C5V1	5.1	4.8	5.4	5	60	480	1.0	2	2.0	
BZT52C5V6	5.6	5.2	6.0	5	40	400	1.0	1	2.0	
BZT52C6V2	6.2	5.8	6.6	5	10	150	1.0	3	4.0	
BZT52C6V8	6.8	6.4	7.2	5	15	80	1.0	2	4.0	
BZT52C7V5	7.5	7.0	7.9	5	15	80	1.0	1	5.0	
BZT52C8V2	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	
BZT52C9V1	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	
BZT52C10	10	9.4	10.6	5	20	150	1.0	0.2	7.0	
BZT52C11	11	10.4	11.6	5	20	150	1.0	0.1	8.0	
BZT52C12	12	11.4	12.7	5	25	150	1.0	0.1	8.0	
BZT52C13	13	12.4	14.1	5	30	170	1.0	0.1	8.0	
BZT52C15	15	13.8	15.6	5	30	200	1.0	0.1	10.5	
BZT52C16	16	15.3	17.1	5	40	200	1.0	0.1	11.2	
BZT52C18	18	16.8	19.1	5	45	225	1.0	0.1	12.6	
BZT52C20	20	18.8	21.2	5	55	225	1.0	0.1	14.0	
BZT52C22	22	20.8	23.3	5	55	250	1.0	0.1	15.4	
BZT52C24	24	22.8	25.6	5	70	250	1.0	0.1	16.8	
BZT52C27	27	25.1	28.9	2	80	300	0.5	0.1	18.9	
BZT52C30	30	28.0	32.0	2	80	300	0.5	0.1	21.0	
BZT52C33	33	31.0	35.0	2	80	325	0.5	0.1	23.1	
BZT52C36	36	34.0	38.0	2	90	350	0.5	0.1	25.2	
BZT52C39	39	37.0	41.0	2	130	350	0.5	0.1	27.3	

NOTE : V_Z is tested with pulses (20 ms)

ZENER DIODES

500mW / DO-35
Tolerance approximately $\pm 5\%$

TYPE	Zener Voltage Range (NOTE 3)				Max. Zener Impedance (NOTE 1)			Max. Reverse Leakage Current (NOTE 2)		Equivalent Circuit Diagram
	V _Z @ I _{ZT}				Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μA)	(V)	
1N5223B	2.7	2.57	2.84	20.0	30	1300	0.25	75	1.0	
1N5224B	2.8	2.66	2.94	20.0	30	1400	0.25	75	1.0	
1N5225B	3.0	2.85	3.15	20.0	29	1600	0.25	50	1.0	
1N5226B	3.3	3.14	3.47	20.0	28	1600	0.25	25	1.0	
1N5227B	3.6	3.42	3.78	20.0	24	1700	0.25	15	1.0	
1N5228B	3.9	3.71	4.10	20.0	23	1900	0.25	10	1.0	
1N5229B	4.3	4.09	4.52	20.0	22	2000	0.25	5	1.0	
1N5230B	4.7	4.47	4.94	20.0	19	1900	0.25	5	2.0	
1N5231B	5.1	4.85	5.36	20.0	17	1600	0.25	5	2.0	
1N5232B	5.6	5.32	5.88	20.0	11	1600	0.25	5	3.0	
1N5233B	6.0	5.70	6.30	20.0	7	1600	0.25	5	3.5	
1N5234B	6.2	5.89	6.51	20.0	7	1000	0.25	5	4.0	
1N5235B	6.8	6.46	7.14	20.0	5	750	0.25	3	5.0	
1N5236B	7.5	7.13	7.88	20.0	6	500	0.25	3	6.0	
1N5237B	8.2	7.79	8.61	20.0	8	500	0.25	3	6.5	
1N5238B	8.7	8.27	9.14	20.0	8	600	0.25	3	6.5	
1N5239B	9.1	8.65	9.56	20.0	10	600	0.25	3	7.0	
1N5240B	10	9.50	10.50	20.0	17	600	0.25	3	8.0	
1N5241B	11	10.45	11.55	20.0	22	600	0.25	2	8.4	
1N5242B	12	11.40	12.60	20.0	30	600	0.25	1	9.1	
1N5243B	13	12.35	13.65	9.5	13	600	0.25	0.5	9.9	
1N5244B	14	13.30	14.70	9.0	15	600	0.25	0.1	10	
1N5245B	15	14.25	15.75	8.5	16	600	0.25	0.1	11	
1N5246B	16	15.20	16.80	7.8	17	600	0.25	0.1	12	
1N5247B	17	16.15	17.85	7.4	19	600	0.25	0.1	13	
1N5248B	18	17.10	18.90	7.0	21	600	0.25	0.1	14	
1N5249B	19	18.05	19.95	6.6	23	600	0.25	0.1	14	
1N5250B	20	19.00	21.00	6.2	25	600	0.25	0.1	15	
1N5251B	22	20.90	23.10	5.6	29	600	0.25	0.1	17	
1N5252B	24	22.80	25.20	5.2	33	600	0.25	0.1	18	
1N5253B	25	23.75	26.25	5.0	35	600	0.25	0.1	19	
1N5254B	27	25.65	28.35	4.6	41	600	0.25	0.1	21	
1N5255B	28	26.60	29.40	4.5	44	600	0.25	0.1	21	
1N5256B	30	28.50	31.50	4.2	49	600	0.25	0.1	23	
1N5257B	33	31.35	34.65	3.8	58	700	0.25	0.1	25	
1N5258B	36	34.20	37.80	3.4	70	700	0.25	0.1	27	
1N5259B	39	37.05	40.95	3.2	80	800	0.25	0.1	30	
1N5260B	43	40.85	45.15	3.0	93	900	0.25	0.1	33	
1N5261B	47	44.65	49.35	2.7	105	1000	0.25	0.1	36	

NOTES : (1) The Zener Impedance is derived from the 60Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

(2) Valid provided that leads at a distance of 8 mm from case and kept at ambient temperature.

(3) Tested with pulses t_p = 20 ms.

ZENER DIODES

1000mW / Glass Case DO-204AL (DO-41)
Tolerance approximately $\pm 5\%$

TYPE	Zener Voltage Range (NOTE 3, 5)				Max. Zener Impedance (NOTE 1)			Max. Reverse Leakage Current		Max. Surge Current (NOTE 4)	Max. Regulator Current (NOTE 2)
	V _Z @ I _{ZT}				Z _{VT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R @ V _R		at T _A = 25°C	
	Nom. (V)	Min. (V)	Max. (V)	I _{ZT} (mA)	Ω	Ω	(mA)	(μA)	(V)	I _{ZSM} (mA)	
1N4728A	3.3	3.13	3.47	76.0	10.0	400	1.00	150	1.0	1375	275
1N4729A	3.6	3.42	3.78	69.0	10.0	400	1.00	100	1.0	1260	252
1N4730A	3.9	3.70	4.10	64.0	9.0	400	1.00	100	1.0	1190	234
1N4731A	4.3	4.08	4.52	58.0	9.0	400	1.00	50	1.0	1070	217
1N4732A	4.7	4.46	4.94	53.0	8.0	500	1.00	10	1.0	970	193
1N4733A	5.1	4.84	5.36	49.0	7.0	550	1.00	10	1.0	890	178
1N4734A	5.6	5.32	5.88	45.0	5.0	600	1.00	10	2.0	810	162
1N4735A	6.2	5.89	6.51	41.0	2.0	700	1.00	10	3.0	730	146
1N4736A	6.8	6.46	7.14	37.0	3.5	700	1.00	10	4.0	660	133
1N4737A	7.5	7.12	7.88	34.0	4.0	700	0.50	10	5.0	605	121
1N4738A	8.2	7.79	8.61	31.0	4.5	700	0.50	10	6.0	550	110
1N4739A	9.1	8.64	9.56	28.0	5	700	0.50	10	7.0	500	100
1N4740A	10.0	9.50	10.50	25.0	7	700	0.25	10	7.6	454	91
1N4741A	11.0	10.45	11.55	23.0	8	700	0.25	5	8.4	414	83
1N4742A	12.0	11.40	12.60	21.0	9	700	0.25	5	9.1	380	76
1N4743A	13.0	12.35	13.65	19.0	10	700	0.25	5	9.9	344	69
1N4744A	15.0	14.25	15.75	17.0	14	700	0.25	5	11.4	304	61
1N4745A	16.0	15.20	16.80	15.5	16	700	0.25	5	12.2	285	57
1N4746A	18.0	17.10	18.90	14.0	20	750	0.25	5	13.7	250	50
1N4747A	20.0	19.00	21.00	12.5	22	750	0.25	5	15.2	225	45
1N4748A	22.0	20.90	23.10	11.5	23	750	0.25	5	16.7	205	41
1N4749A	24.0	22.80	25.20	10.5	25	750	0.25	5	18.2	190	38
1N4750A	27.0	25.65	28.35	9.5	35	750	0.25	5	20.6	170	34
1N4751A	30.0	28.50	31.50	8.5	40	1000	0.25	5	22.8	150	30
1N4752A	33.0	31.35	34.65	7.5	45	1000	0.25	5	25.1	135	27
1N4753A	36.0	34.20	37.80	7.0	50	1000	0.25	5	27.4	125	25
1N4754A	39.0	37.05	40.95	6.5	60	1000	0.25	5	39.7	115	23
1N4755A	43.0	40.85	45.15	6.0	70	1500	0.25	5	32.7	110	22
1N4756A	47.0	44.65	49.35	5.5	80	1500	0.25	5	35.8	95	19
1N4757A	51.0	48.45	53.55	5.0	95	1500	0.25	5	38.8	90	18
1N4758A	56.0	53.20	58.80	4.5	110	2000	0.25	5	42.6	80	16
1N4759A	62.0	58.90	65.10	4.0	125	2000	0.25	5	47.1	70	14

- NOTES : (1) The Zener Impedance is derived from the 60Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.
- (2) Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.
- (3) Measured under thermal equilibrium and DC test conditions.
- (4) The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current I_{ZT}.
- (5) Tested with pulses t_p = 20 ms.

SMALL SIGNAL SCHOTTKY BARRIER DIODE

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current @8.3ms	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Equivalent Circuit Diagram
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	
	V	A	A	uA	A	V	

0.2 AMPERE / SOD-323 / Halogen-free



BAT54HT1GH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 1
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0.2 AMPERE / SOT-23 / Halogen-free



BAT54RGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 2
BAT54RAGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 5
BAT54RCGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 3
BAT54RSGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 4

0.2 AMPERE / SOT-323 / Halogen-free



BAT54WGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 2
BAT54AWGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 5
BAT54CWGH	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 3
BAT54SWG	30	0.20	-	2.0 (@V _R 25V)	0.10	1.00	CIRCUIT 4

0.5 AMPERE / SOT-23 / Halogen-free



RB411DGH	40	0.50	3	30 (@V _R 10V)	0.50	0.50	CIRCUIT 2
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1.0 AMPERE / SOT-23 / Halogen-free



RB491DGH	25	1.0	3	200 (@V _R 20V)	1.00	0.45	CIRCUIT 2
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EQUIVALENT CIRCUIT DIAGRAM

CIRCUIT TYPE	CIRCUIT 1	CIRCUIT 2	CIRCUIT 3	CIRCUIT 4	CIRCUIT 5
SYMBOL					

SWITCHING DIODES

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Equivalent Circuit Diagram
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR}	
	V	A	A	uA	A	V	nS	

0.1 AMPERE / SOD-323 / Halogen-free



1SS355GH	90	0.10	0.225	0.1 (@V _R 80V)	0.10	1.20	4	CIRCUIT 1
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0.1 AMPERE / SOT-23 / Halogen-free



MMBD2836GH	75	0.10	-	0.1 (@V _R 50V)	0.10	1.20	4	CIRCUIT 5
MMBD2838GH	75	0.10	-	0.1 (@V _R 50V)	0.10	1.20	4	CIRCUIT 3

0.1 AMPERE / SOD-523 / Halogen-free



1SS400GH	90	0.10	0.5	0.1 (@V _R 80V)	0.10	1.20	4	CIRCUIT 1
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0.125 AMPERE / SOD-523 / Halogen-free



1N4148WTGH	75	0.125	2 (@ t = 1us)	5 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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NEW

0.15 AMPERE / 0402 (Equivalent to SOD-723) / Halogen-free Superchip



PATENTED

1SS400HC	100	0.15	2 (@ t = 1us)	2 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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NOTE : The objective specification for product development, spec is subject to change, please contact ZOWIE for update.

NEW

0.15 AMPERE / 0603-D (Equivalent to UMD2 / Similar to SOD-323) / Halogen-free Superchip



PATENTED

1N4148WTHC	100	0.15	2 (@ t = 1us)	5 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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NEW

0.15 AMPERE / 0805 (Equivalent to UMD2) / Halogen-free Superchip



PATENTED

1N4148WSH	100	0.15	2 (@ t = 1us)	5 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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0.15 AMPERE / SOD-123 / Halogen-free



1N4148WGH	75	0.15	2 (@ t = 1us)	5 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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0.15 AMPERE / SOD-323 / Halogen-free



1N4148WSGH	75	0.15	0.35 (@ t < 1s)	5 (@V _R 75V)	0.15	1.25	4	CIRCUIT 1
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EQUIVALENT CIRCUIT DIAGRAM

CIRCUIT TYPE	CIRCUIT 1	CIRCUIT 2	CIRCUIT 3	CIRCUIT 4	CIRCUIT 5
SYMBOL					

SWITCHING DIODES

TYPE	Peak Repetitive Reverse Voltage	Max. Average Rectified Current	Max. Peak Forward Surge Current	Max. Reverse Current @ 25°C T _A	Max. Forward Voltage @ 25°C T _A		Max. Reverse Recovery Time	Equivalent Circuit Diagram
	V _{RRM}	I _O	I _{FSM} (Surge)	I _R	I _F	V _F	T _{RR}	
	V	A	A	uA	A	V	nS	

0.2 AMPERE / DO-35 / Halogen-free

1N4148GH	75	0.20	4.0 (@ t = 1.0uS)	5.0 (@V _R 75V)	0.01	1.00	4	CIRCUIT 1
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0.2 AMPERE / SOD-80 (LL-34) / Halogen-free

LL4148GH	100	0.2	4.0 (t = 1.0uS)	5.0 (@V _R 75V)	0.01	1.00	4	CIRCUIT 1
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0.2 AMPERE / SOD-323 / Halogen-free

BAS16HT1GH	75	0.2	0.5	1.0 (@V _R 75V)	0.15	1.25	6	CIRCUIT 1
BAS21HT1GH	250	0.2	0.625	1.0 (@V _R 200V)	0.20	1.25	50	CIRCUIT 1
MMDL914T1GH	100	0.2	0.5	5.0 (@V _R 75V)	0.01	1.00	4	CIRCUIT 1

0.2 AMPERE / SOT-323 / Halogen-free

BAV70WGH	70	0.2	0.5	0.5 (@V _R 70V)	0.15	1.25	6	CIRCUIT 3
BAW56WGH	70	0.2	4.5 (t = 1.0uS)	2.5 (@V _R 70V)	0.15	1.25	6	CIRCUIT 5

0.2 AMPERE / SOT-23 / Halogen-free

BAS16GH	75	0.2	0.5	1.0 (@V _R 75V)	0.15	1.25	6	CIRCUIT 2
BAS21GH	250	0.2	0.625	0.1 (@V _R 200V)	0.20	1.25	50	CIRCUIT 2
BAV70GH	70	0.2	0.5	2.5 (@V _R 70V)	0.15	1.25	6	CIRCUIT 3
BAW56GH	70	0.2	0.5	2.5 (@V _R 70V)	0.15	1.25	6	CIRCUIT 5
MMBD7000GH	100	0.2	0.5	3.0 (@V _R 100V)	0.10	1.10	4	CIRCUIT 4
MMBD914GH	100	0.2	0.5	5.0 (@V _R 75V)	0.01	1.00	4	CIRCUIT 2

0.215 AMPERE / SOT-323 / Halogen-free

BAV99WGH	70	0.2	4.5 (t = 1.0uS)	5.0 (@V _R 70V)	0.15	1.25	6	CIRCUIT 4
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0.215 AMPERE / SOT-23 / Halogen-free

BAV99GH	70	0.215	0.5	2.5 (@V _R 70V)	0.15	1.25	6	CIRCUIT 4
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EQUIVALENT CIRCUIT DIAGRAM

CIRCUIT TYPE	CIRCUIT 1	CIRCUIT 2	CIRCUIT 3	CIRCUIT 4	CIRCUIT 5
SYMBOL					

TRANSISTORS



SOT-23 / Halogen-free

TYPE	V _{CB0}	V _{CEO}	I _C	P _D	H _{FE}		V _{CE(sat)}		f _T	Equivalent Circuit Diagram
	(V)	(V)	(mA)	(mW)	Min. / Max.	I _C / V _{CE} (mA / V)	Max. (V)	I _C / I _B (mA)	MHz	
MMBT3906GH	-40	-40	-200	225	100 / 300	-10 / -1.0	-0.4	-50 / -5.0	250	CIRCUIT 2
MMBT4403GH	-40	-40	-600	225	100 / 300	-150 / -2.0	-0.75	-500 / -50	200	CIRCUIT 2
MMBT2907AGH	-60	-60	-600	225	100 / 300	-150 / -10	-0.4	-150 / -15	200	CIRCUIT 2
MMBT5401GH	-160	-150	-500	225	60 / 240	-10 / -5	-0.5	-50 / -5.0	300	CIRCUIT 2
MMBT3904GH	60	40	200	225	100 / 300	10 / 1.0	0.3	50 / 5.0	300	CIRCUIT 1
MMBT4401GH	60	40	600	225	100 / 300	150 / 1.0	0.75	500 / 50	250	CIRCUIT 1
MMBT2222AGH	75	40	600	225	100 / 300	150 / 10	0.3	150 / 15	300	CIRCUIT 1
MMBT5551GH	160	140	600	225	80 / 250	10 / 5.0	0.2	50 / 5.0	-	CIRCUIT 1

NOTE : OPERATING AND STORAGE TEMPERATURE RANGE -55°C to +150°C



SOT-323 / Halogen-free

TYPE	V _{CB0}	V _{CEO}	I _C	P _D	H _{FE}		V _{CE(sat)}		f _T	Equivalent Circuit Diagram
	(V)	(V)	(mA)	(mW)	Min. / Max.	I _C / V _{CE} (mA / V)	Max. (V)	I _C / I _B (mA)	MHz (Min.)	
MMBT3906WGH	-40	-40	-200	225	100 / 300	-10 / 1.0	-0.4	-50 / -5.0	250	CIRCUIT 2
MMBT3904WGH	60	40	200	225	100 / 300	10 / 1.0	0.3	50 / 5.0	300	CIRCUIT 1

NOTE : OPERATING AND STORAGE TEMPERATURE RANGE -55°C to +150°C

EQUIVALENT CIRCUIT DIAGRAM

CIRCUIT TYPE	CIRCUIT 1	CIRCUIT 2
SYMBOL	Diagram of an NPN transistor symbol. The base is labeled 1, the emitter is labeled 2, and the collector is labeled 3. The emitter has an arrow pointing outwards.	Diagram of a PNP transistor symbol. The base is labeled 1, the emitter is labeled 2, and the collector is labeled 3. The emitter has an arrow pointing inwards.

PACKING OF DIODES AND BRIDGE RECTIFIERS

BULK PACKING

OUTLINE		BOX (PCS)	CARTON (PCS)	CARTON SIZE (m/m)
R-1		1,000	50,000	475 * 220 * 275
DO-204AL (DO-41)		1,000	50,000	
DO-204AC (DO-15)		1,000	50,000	
DO-201AD / DO-201AE (DO-27)		500	12,000	335 * 320 * 275
P-600		200	4,800	
DFM	50Pcs / Tube Pack	2,500	15,000	470 * 240 * 310
DFS		5,000	30,000	
GBL Bulk Tube	20 Pcs / Tube Pack	1,400	2,800	530 * 340 * 180
GBL-LS Bulk Tube		1,000	4,000	570 * 325 * 200
GBU Bulk Tube		1,000	2,000	530 * 340 * 180
GBU-LC Bulk Tube		720	2,880	573 * 331 * 210
GBJ Bulk Tube	15 Pcs / Tube Pack	750	1,500	530 * 340 * 180
KBJ Bulk Tube	20 Pcs / Tube Pack	1,000	2,000	590 * 370 * 200
GBP Bulk Tube	25 Pcs / Tube Pack	1,250	5,000	430 * 330 * 165
KBL		500	3,000	485 * 240 * 172
GBPC		50	500	435 * 215 * 260
GBPC-W		50	500	
Schottky Products TO-220AB / ITO-220AB TO-220AC / ITO-220AC	50Pcs / Tube Pack	1,000	5,000	585 * 285 * 170
		4,000	8,000	585 * 316 * 164
Rectifier Products TO-220AB / ITO-220AB TO-220AC / ITO-220AC	50Pcs / Tube Pack	2,000	8,000	565 * 315 * 200

REEL PACKING

OUTLINE	REEL (PCS)	CARTON (PCS)	CARTON SIZE (m/m)
R-1	5,000	20,000	340 * 340 * 360
DO-204AL (DO-41)	5,000	20,000	
DO-204AC (DO-15)	4,000	16,000	
DO-201AD / DO-201AE (DO-27)	1,250	5,000	
P-600	750	3,000	
R-6	750	3,000	

PACKING OF DIODES AND BRIDGE RECTIFIERS

REEL PACKING

OUTLINE	REEL (PCS)	CARTON (PCS)	CARTON SIZE (m/m)
DO-214AC (SMA) 13"	7,500	75,000	360 * 360 * 240
DO-214AC (SMA) Schottky Products 13"	5,000	50,000	
DO-214AA (SMB) 13"	3,000	30,000	
DO-214AB (SMC) 13"	3,000	15,000	
Z4PAK MBCR / MBCN / MBC 13"	5,000	50,000	
DFS 13"	1,000	8,000	
Z5PAK-T / Z6PAK Z4PAK-D / 3220 13"	3,000	15,000	
0402 7"	10,000	300,000	400 * 207 * 240
0603-D 7"	4,000	120,000	400 * 207 * 240
Z1PAK / Z1PAK-S 0603 0805 7"	3,000	90,000	400 * 207 * 240
Z2PAK / Z2APAK 1206 / 1206-S 2010 7"	3,000	72,000	
Z3PAK / Z3PAK-T 2114 13"	5,000	50,000	360 * 360 * 240
SOD-80 7"	2,500	50,000	400 * 207 * 240
SOT-23 / SOT-323 SOD-123 SOD-123 (Flat lead) SOD-323 SOD-323 (Flat lead) SOD-523 / SOD-723 7"	3,000	60,000 120,000	400 * 207 * 240 360 * 360 * 240
SOD-523 (Zener Products) 7"	4,000	80,000 160,000	400 * 207 * 240 360 * 360 * 240
SOD-723 (Schottky Products) 7"	4,000	80,000 160,000	

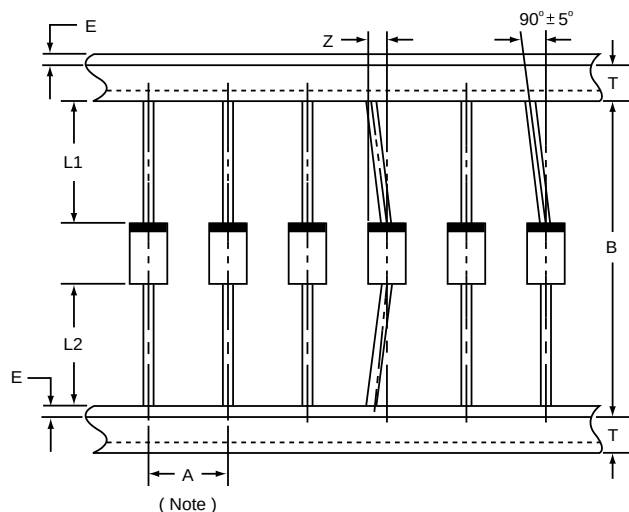
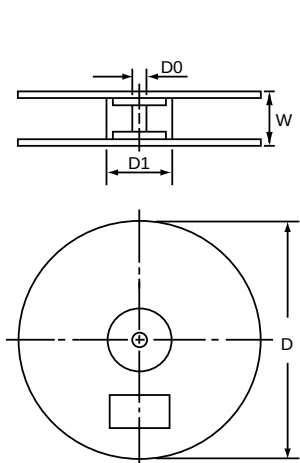
AMMO BOX PACKING (52mm Taping)

OUTLINE	BOX (PCS)	BOX SIZE (m/m)	CARTON (PCS)	CARTON SIZE (m/m)
DO-35	5,000	262 * 77 * 76	50,000	360 * 360 * 240
DO-41(Glass)	2,500	262 * 77 * 76	25,000	
R-1	3,000	250 * 80 * 90	45,000	340 * 340 * 360
	5,000	260 * 80 * 160	50,000	460 * 280 * 355
DO-204AL (DO-41)	5,000	260 * 80 * 160	50,000	460 * 280 * 355
DO-204AC (DO-15)	3,000	260 * 80 * 160	30,000	
DO-201AD (DO-27)	1,200	260 * 80 * 160	12,000	
DO-201AE (DO-27)	1,000	260 * 80 * 160	10,000	

AXIAL LEAD TAPING SPECIFICATIONS

Axial lead devices are packed in accordance with EIA standard RS-296-E and specifications given below.

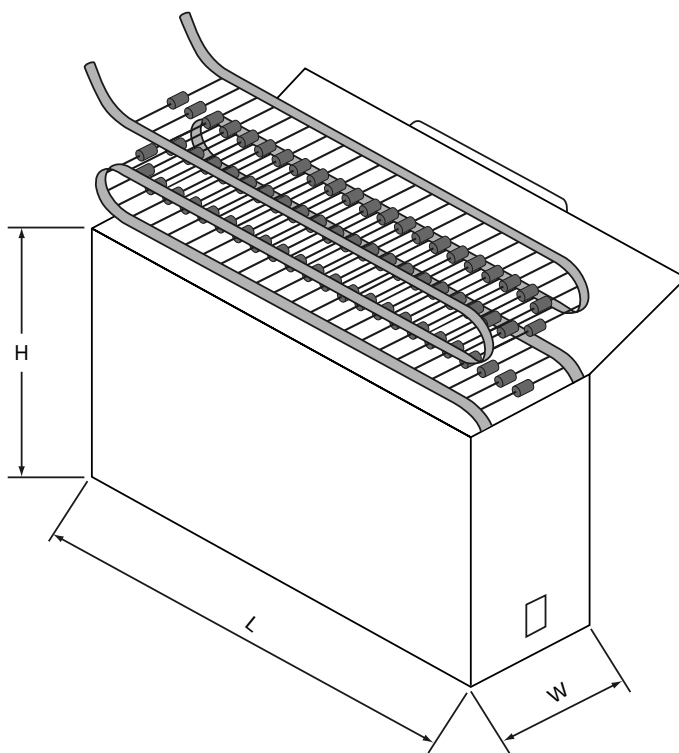
COMPONENT OUTLINE	COMPONENT PITCH A	INNER TAPE PITCH B	CUMULATIVE PITCH TOLERANCE
R-1	5.0mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch
DO-35 / DO-41 (Glass)	5.0mm $\pm$ 0.3mm	52.25mm $\pm$ 0.25mm	2.0mm / 10 pitch
DO-204AL (DO-41)	5.0mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch
DO-204AC (DO-15)	5.0mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch
DO-201AD (DO-27)	10mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch
DO-201AE (DO-27)	10.0mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch
P-600 / R-6	10.0mm $\pm$ 0.5mm	52.4mm $\pm$ 1.5mm	2.0mm / 10 pitch



ITEM	SYMBOL	SPECIFICATION (m/m)	SPECIFICATION (inch)
Component alignment	Z	1.2 max.	0.048 max.
Tape width	T	6.0 $\pm$ 0.4	0.236 $\pm$ 0.016
Exposed adhesive	E	0.8 max.	0.032 max.
Body eccentricity	L1-L2	1.0 max.	0.040 max.
Reel outside diameter	D	330.0 $\pm$ 2.0	13.0 $\pm$ 0.08
Reel inner diameter	D1	85.7 $\pm$ 0.3	3.375 $\pm$ 0.012
Feed hole diameter	D0	16.6 $\pm$ 0.4	0.655 $\pm$ 0.016
Reel width	W	79.0 $\pm$ 1.0	3.110 $\pm$ 0.040

NOTE : Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126")

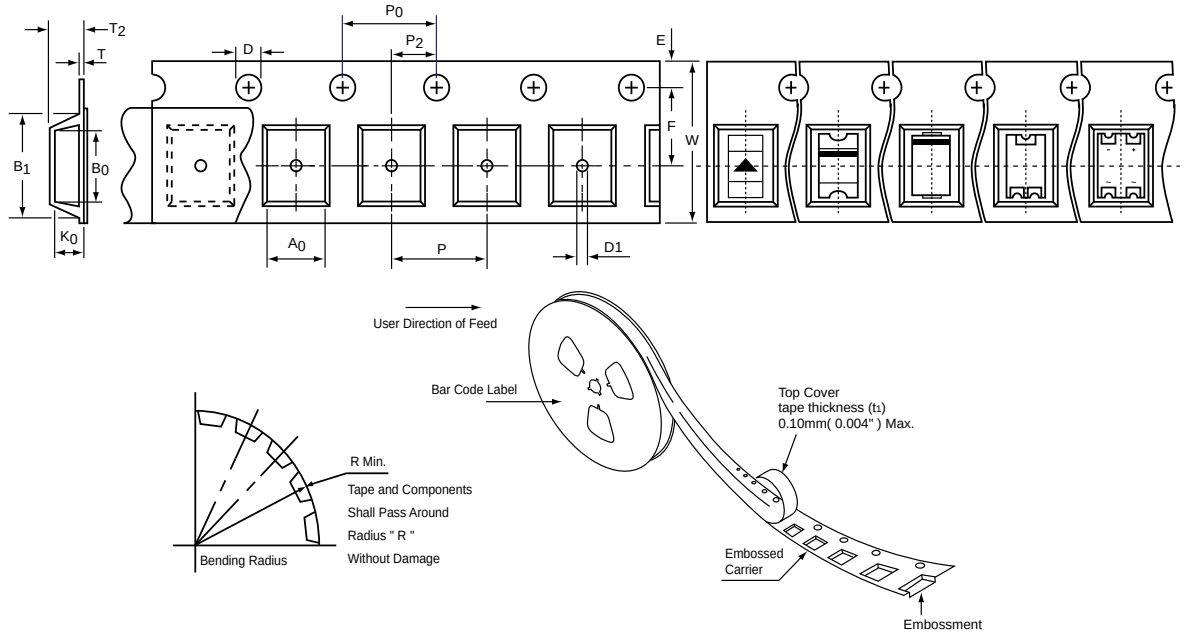
AMMO PACK DIMENSIONS



Unit : Millimeters (Inches)

Outline	Dimension			Quantity
	Length (L)	Width (W)	Height (H)	
R-1	250 ± 10 (9.84 ± 0.4)	80 ± 5 (3.15 ± 0.2)	90 ± 10 (3.54 ± 0.4)	3,000
	260 ± 5 (10.24 ± 0.2)	80 ± 5 (3.15 ± 0.2)	160 ± 10 (6.30 ± 0.4)	5,000
DO-35	262 ± 5 (10.31 ± 0.2)	77 ± 5 (3.03 ± 0.2)	76 ± 10 (2.99 ± 0.4)	5,000
DO-41 (Glass)	262 ± 5 (10.31 ± 0.2)	77 ± 5 (3.03 ± 0.2)	76 ± 10 (2.99 ± 0.4)	2,500
DO-204AL (DO-41)	260 ± 5 (10.24 ± 0.2)	80 ± 5 (3.15 ± 0.2)	160 ± 10 (6.30 ± 0.4)	5,000
DO-204AC (DO-15)	260 ± 5 (10.24 ± 0.2)	80 ± 5 (3.15 ± 0.2)	160 ± 10 (6.30 ± 0.4)	3,000
DO-201AD (DO-27)	260 ± 5 (10.24 ± 0.2)	80 ± 5 (3.15 ± 0.2)	160 ± 10 (6.30 ± 0.4)	1,200
DO-201AE (DO-27)	260 ± 5 (10.24 ± 0.2)	80 ± 5 (3.15 ± 0.2)	160 ± 10 (6.30 ± 0.4)	1,000

SURFACE MOUNT PACKAGING



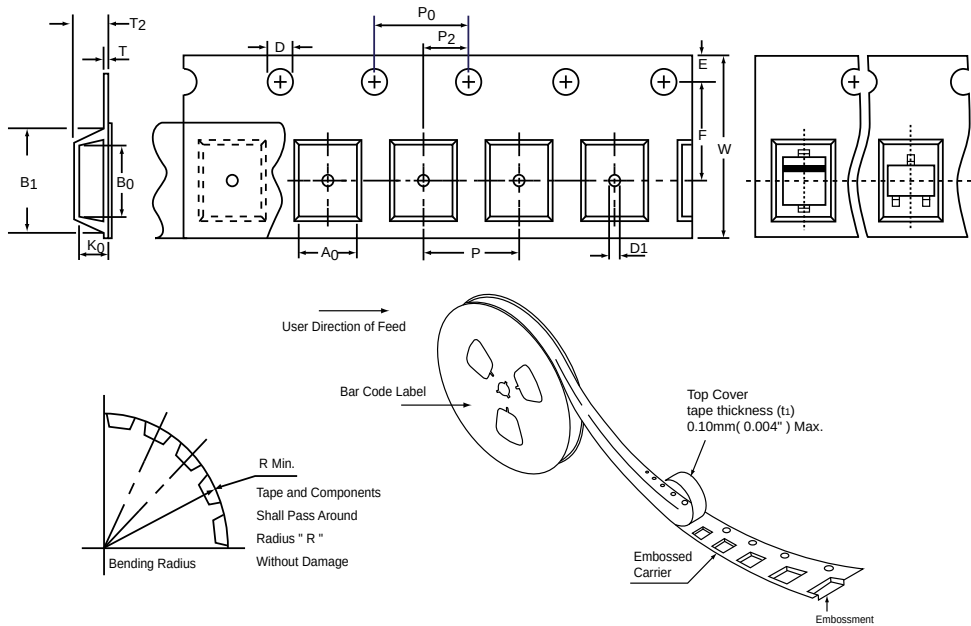
EMBOSSED TAPE

Dimensions in millimeters and (inches)

Tape Size	D	E	P ₀	A ₀	B ₀	K ₀	T max	P ₂	Constant Dimensions
8 , 12 mm	1.50 ± 0.1 (0.059 ±0.004)	1.75 ± 0.1 (0.069 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	See Note 1			0.40 (0.016)	2.0 ± 0.1 (0.079 ± 0.002)	
16 mm	1.55 ± 0.05 (0.061 ±0.002)	1.75 ± 0.1 (0.069 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)						
PRODUCT TYPE	TAPE SIZE	B1	D1	F	P	W	T2	R Min	
0402	8 mm	1.19 ± 0.03 (0.047 ± 0.001)	—	3.50 ± 0.05 (0.138 ± 0.002)	2.00 ± 0.05 (0.079 ± 0.002)	8.00 ± 0.10 (0.315 ± 0.004)	0.6 ± 0.03 (0.024 ± 0.001)	25 (0.98)	
0603-D		1.80 ± 0.05 (0.0717 ± 0.002)	—	3.50 ± 0.05 (0.138 ± 0.002)	4.00 ± 0.05 (0.276 ± 0.002)	8.00 ± 0.10 (0.315 ± 0.004)	0.75 ± 0.03 (0.030 ± 0.001)	25 (0.98)	
0603		2.0 max. (0.079 max.)	0.80 ± 0.05 (0.031 ± 0.002)	3.50 ± 0.05 (0.138 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	8.00 ± 0.30 (0.315 ± 0.012)	1.00 ± 0.10 (0.039 ± 0.004)	25 (0.98)	
Z1PAK Z1PAK-S 0805			0.80 ± 0.05 (0.031 ± 0.002)	3.50 ± 0.05 (0.138 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	8.00 ± 0.30 (0.315 ± 0.012)	1.22 ± 0.10 (0.048 ± 0.004)	25 (0.98)	
Z2PAK / 1206	12 mm	8.2 max. (0.323 max.)	1.50 min. (0.059 min.)	5.50 ± 0.05 (0.217 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	12.00 ± 0.30 (0.472 ± 0.012)	1.75 ± 0.1 (0.069 ± 0.004)	30 (1.181)	
1206-S							1.40 ± 0.1 (0.055 ± 0.004)		
Z2APAK 2010	12 mm	8.2 max. (0.323 max.)	1.50 min. (0.059 min.)	5.50 ± 0.05 (0.217 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	12.00 ± 0.30 (0.472 ± 0.012)	1.51 ± 0.10 (0.059 ± 0.004)	30 (1.181)	
Z3PAK Z3PAK-T Z4PAK MBC / MBCR MBCN 2114			1.50 min. (0.059 min.)	5.50 ± 0.05 (0.217 ± 0.002)	8.00 ± 0.10 (0.315 ± 0.004)	12.00 ± 0.30 (0.472 ± 0.012)	1.65 ± 0.10 (0.065 ± 0.004)	30 (1.181)	
SMA (DO-214AC)			1.50 min. (0.059 min.)	5.50 ± 0.05 (0.217 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	12.00 ± 0.30 (0.472 ± 0.012)	2.54 ± 0.10 (0.100 ± 0.004)	30 (1.181)	
SMB (DO-214AA)			1.50 min. (0.059 min.)	5.50 ± 0.05 (0.217 ± 0.002)	8.00 ± 0.10 (0.315 ± 0.004)	12.00 ± 0.30 (0.472 ± 0.012)	2.67 ± 0.10 (0.105 ± 0.004)	30 (1.181)	
Z5PAK-T 3220 SMC (DO-214AB)	16 mm	12.1 max. (0.476 max.)	1.50 min. (0.059 min.)	7.50 ± 0.10 (0.295 ± 0.004)	8.00 ± 0.10 (0.315 ± 0.004)	16.00 ± 0.30 (0.630 ± 0.012)	2.50 max. (0.098 max.)	40 (1.575)	
DFS / Z6PAK	16 mm	12.1 max. (0.476 max.)	1.50 min. (0.059 min.)	7.50 ± 0.10 (0.295 ± 0.004)	12.00 ± 0.10 (0.472 ± 0.004)	16.00 ± 0.30 (0.630 ± 0.012)	3.70 max. (0.146 max.)	30 (1.181)	
Z4PAK-D							2.50 max. (0.098 max.)	40 (1.575)	

NOTE : 1. A₀, B₀, and K₀ are determined by component size. The clearance between the components and the cavity must be within 0.05 mm (0.002") min. to 0.50 mm (0.02") max. for 8 mm tape. 0.05 mm (0.002") min. to 0.65 mm (0.026") max. for 12 mm tape. 0.15 mm (0.006") min. to 0.90 mm (0.035") max. for 16 mm tape.
2. All surface mount components are packed in accordance with EIA standard 481-1 and 481-2

SURFACE MOUNT PACKAGING



EMBOSSED TAPE

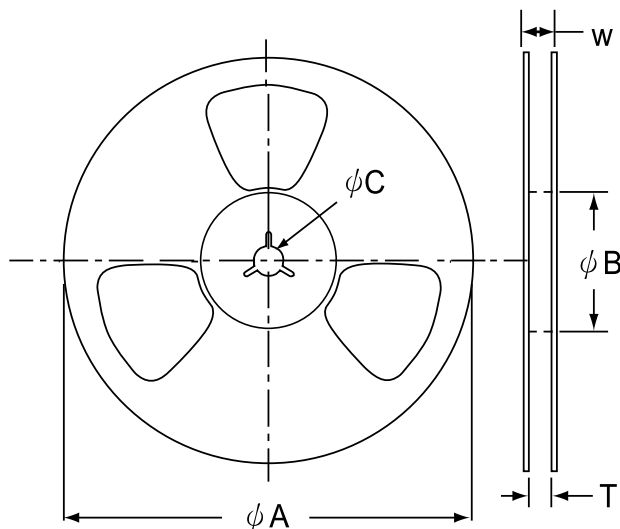
Dimensions in millimeters and (inches)

Tape Size	D	E	P0	A0	B0	K0	T max	P2	Constant Dimensions
8	1.5 ± 0.1 (0.059 ± 0.004)	1.75 ± 0.1 (0.069 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	See Note 1			0.20 (0.008)	2.0 ± 0.1 (0.079 ± 0.002)	
							0.40 (0.016)		
							0.60 (0.024)		

PRODUCT TYPE	TAPE SIZE	B1	D1	F	P	W	T2	R Min
SOD-80	8 mm	2.00 max (0.079 max)	1.00 min 0.039 min	3.50 ± 0.05 (0.138 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	8.30 max (0.327 max)	2.40 max. (0.094 max.)	25 (0.98)
SOT-23 SOT-323 SOD-123 SOD-123 / Flat lead SOD-323 SOD-323 / Flat lead SOD-523 SOD-723	8 mm	4.55 max (0.179 max)	1.00 min 0.039 min	3.50 ± 0.05 (0.138 ± 0.002)	4.00 ± 0.10 (0.157 ± 0.004)	8.30 max (0.327 max)	2.40 max. (0.094 max.)	

NOTE : 1. A₀ , B₀ , and K₀ are determined by component size. The clearance between the components and the cavity must be within 0.05 mm (0.002") Min. to 0.50 mm (0.02") Max. for 8 mm tape and 12 mm tape, 0.15 mm (0.066") Min. to 0.90 mm (0.035") Max.
2. All surface mount components are packed in accordance with EIA standard 481-1 and 481-2

PLASTIC DISK AND SURFACE MOUNT PACKAGE



EMBOSSED TAPE

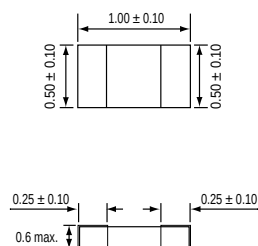
Unit : Millimeters (Inches)

SYMBOL	Tape size	ϕA	ϕB	ϕC	W	T
DO-214AB (SMC) Z4PAK-D Z5PAK-T / Z6PAK 3220 DFS	16 (0.630)	330 ± 2.0 (12.992 $\pm$ 0.079)	50 min. (1.969 min.)	13.0 ± 0.5 (0.512 $\pm$ 0.020)	22.7 max. (0.893 max.)	18.4 max. (0.724 max.)
Z2PAK / Z2PAK 1206 1206-S 2010	12 (0.472)	178 ± 2.0 (7.008 $\pm$ 0.079)	50 min. (1.969 min)	13.0 ± 0.5 (0.512 $\pm$ 0.020)	18.7 max. (0.736 max.)	14.4 max. (0.567 max.)
DO-214AC (SMA) DO-214AA (SMB) 2114 / Z3PAK Z3PAK-T / Z4PAK MBC / MBCR / MBCN		330 ± 2.0 (12.992 $\pm$ 0.079)				
0402 0603-D	8 (0.315)	178 ± 2.0 (7.008 $\pm$ 0.079)	60 ± 0.5 (2.362 $\pm$ 0.020)	13.5 ± 0.5 (0.532 $\pm$ 0.020)	12.0 ± 0.5 (0.472 $\pm$ 0.020)	9.5 ± 0.5 (0.374 $\pm$ 0.020)
Z1PAK 0603 / 0805	8 (0.315)	178 ± 2.0 (7.008 $\pm$ 0.079)	60 ± 0.5 (2.362 $\pm$ 0.020)	13.5 ± 0.5 (0.532 $\pm$ 0.020)	12.0 ± 0.5 (0.472 $\pm$ 0.020)	9.0 ± 0.5 (0.354 $\pm$ 0.020)
SOD-80 SOT-23 SOT-323 SOD-123 SOD-123 / Flat lead SOD-323 SOD-323 / Flat lead SOD-523 SOD-723	8 (0.315)	178 ± 2.0 (7.008 $\pm$ 0.079)	50 min. (1.969 min.)	13.5 ± 0.5 (0.532 $\pm$ 0.020)	14.4 max. (0.567 max.)	$8.40^{+1.50}_{-0.00}$ (0.331 ^{+0.059} _{-0.000})

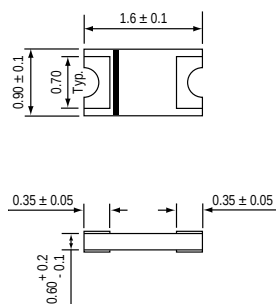
CASE DRAWINGS

Unit : mm

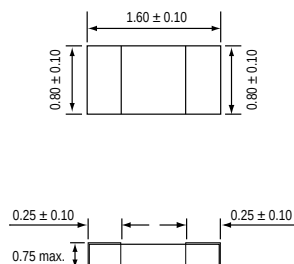
0402



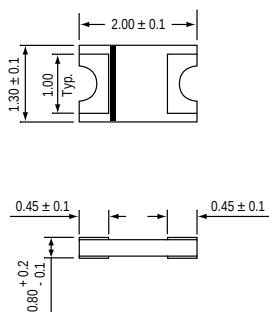
0603



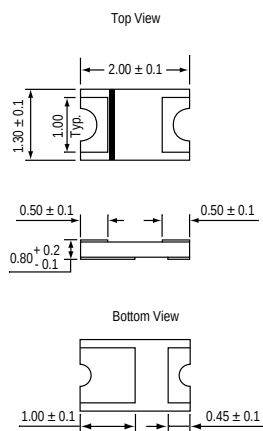
0603-D



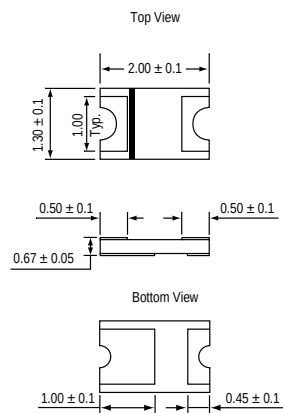
0805



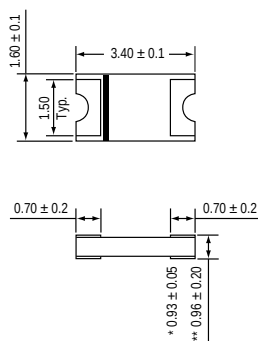
Z1PAK



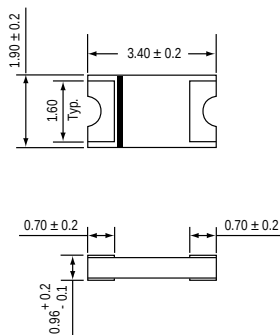
Z1PAK-S



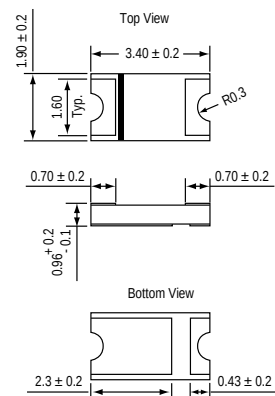
1206-S



1206



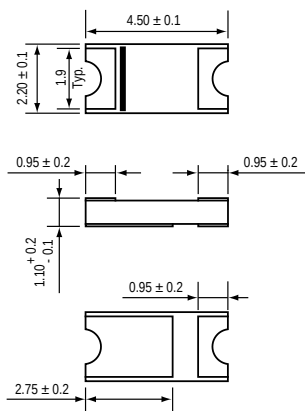
Z2PAK



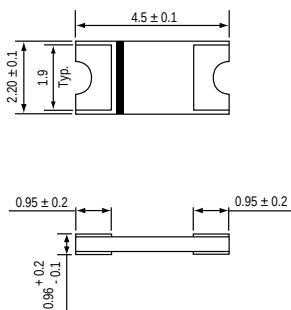
CASE DRAWINGS

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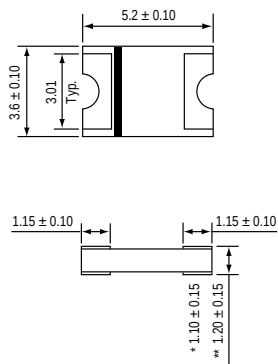
Z2APAK



2010

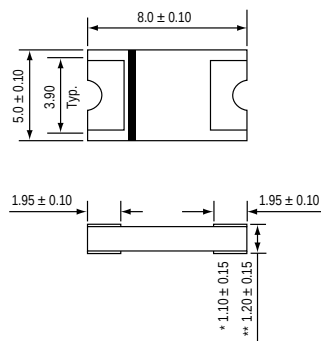


2114



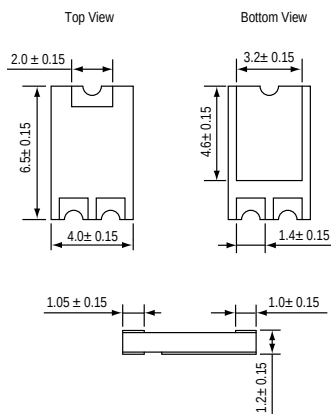
Note :
 *** for Schottky product
 *** for GPRC product

3220

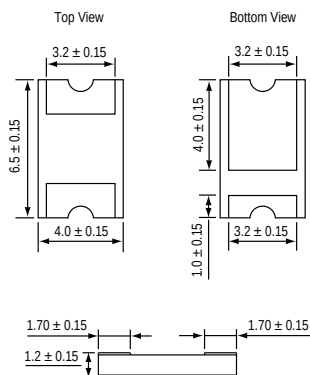


Note :
 *** for Schottky product
 *** for GPRC product

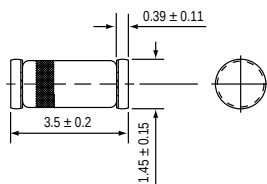
Z3PAK



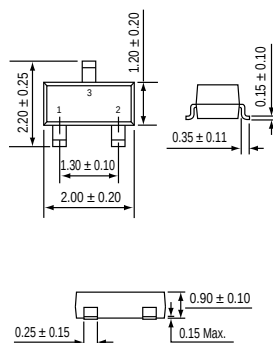
Z3PAK-T



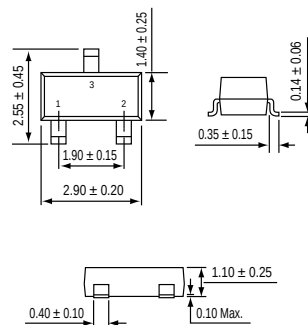
SOD-80 (LL-34)



SOT-323



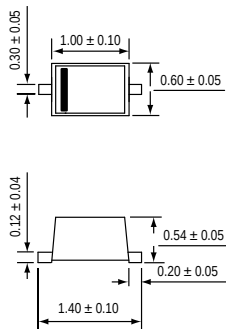
SOT-23



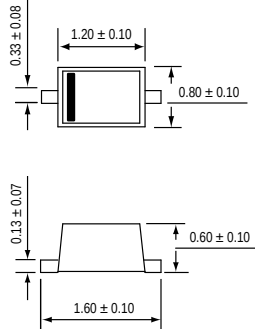
CASE DRAWINGS

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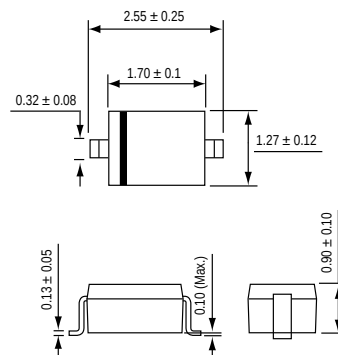
SOD-723



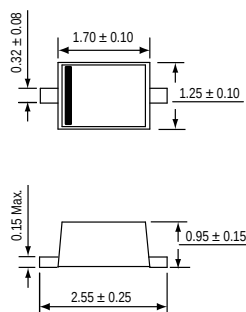
SOD-523



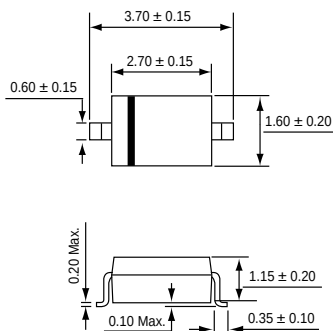
SOD-323



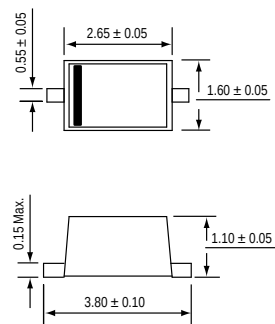
SOD-323 (Flat lead)



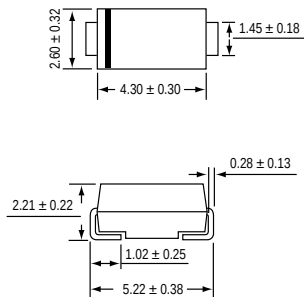
SOD-123



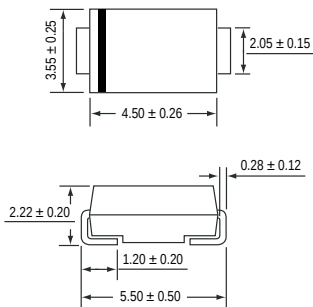
SOD-123 (Flat lead)



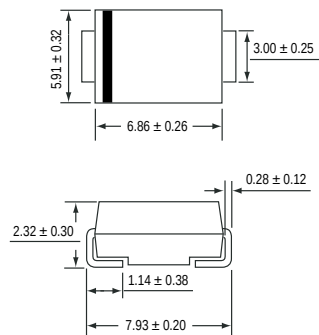
DO-214AC (SMA)



DO-214AA (SMB)



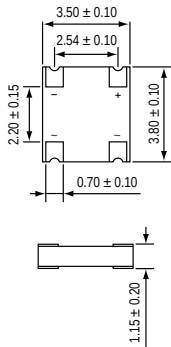
DO-214AB (SMC)



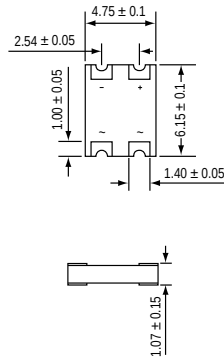
CASE DRAWINGS

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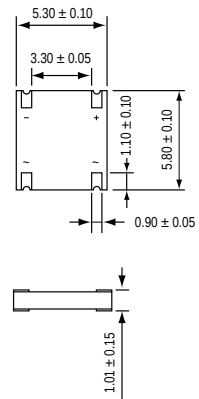
MBCN



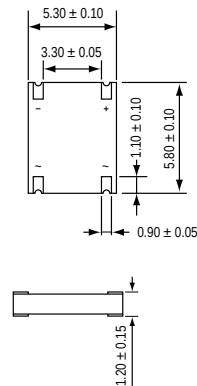
MBC



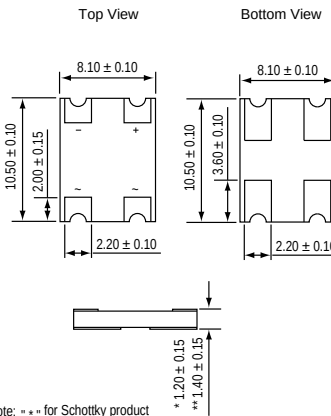
MBCR



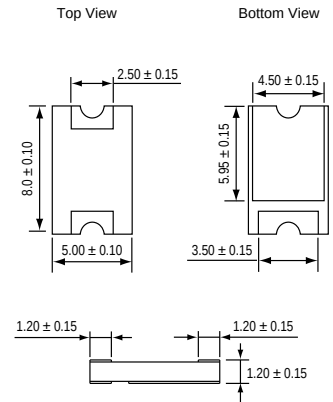
Z4PAK



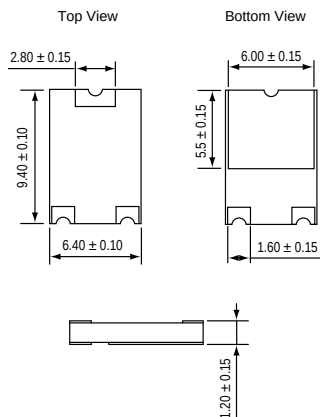
Z4PAK-D



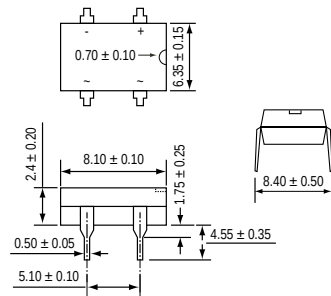
Z5PAK-T



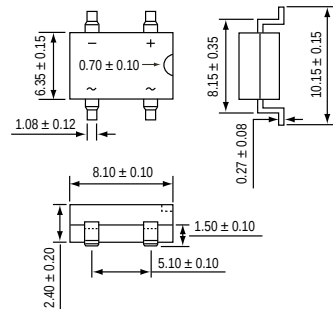
Z6PAK



DFM



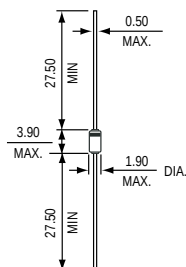
DFS



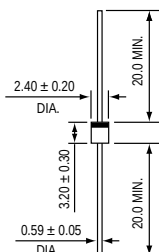
CASE DRAWINGS

Unit : mm

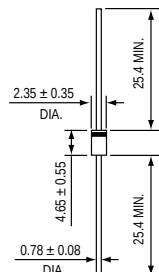
DO-35



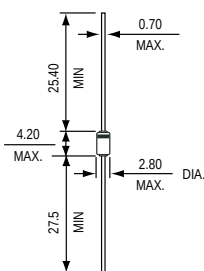
R-1



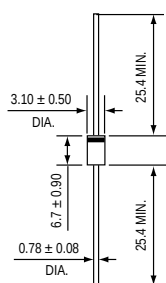
DO-204AL (DO-41)



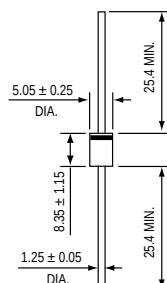
DO-41 (Glass)



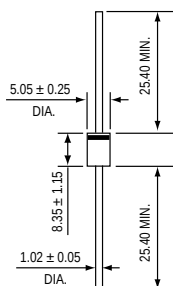
DO-204AC (DO-15)



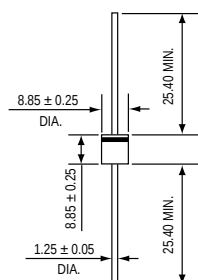
DO-201AD (DO-27)



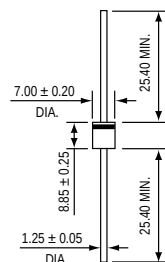
DO-201AE (DO-27)



P-600



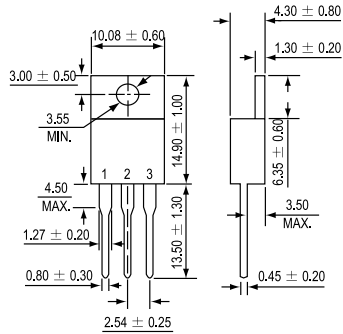
R-6



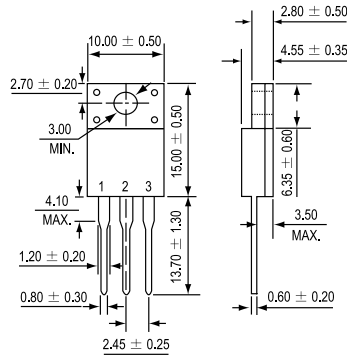
CASE DRAWINGS

Unit : mm

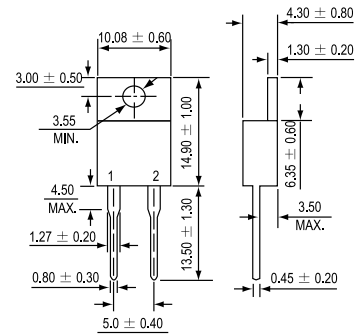
TO-220AB



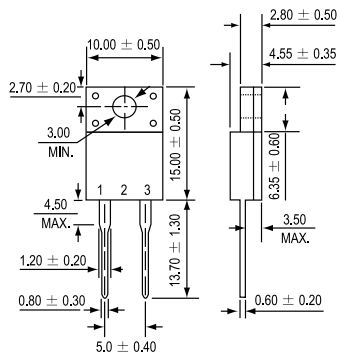
ITO-220AB



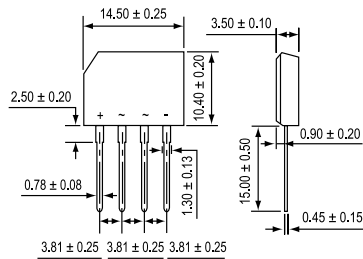
TO-220AC



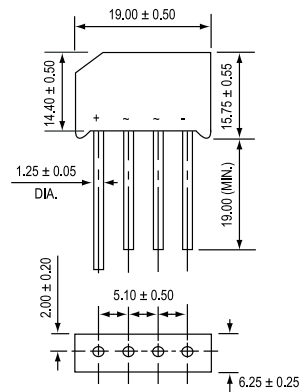
ITO-220AC



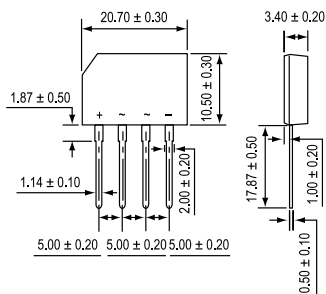
GBP



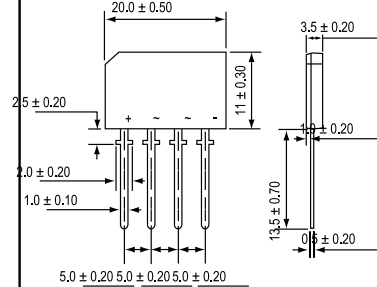
KBL



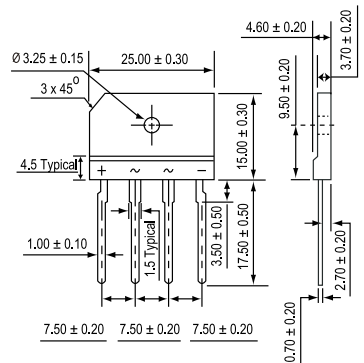
GBL



GBL-LS



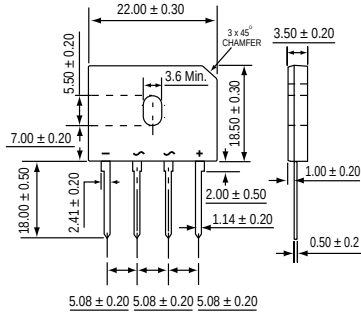
KBJ



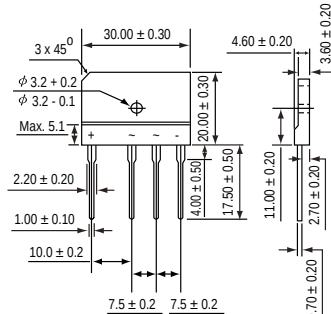
CASE DRAWINGS

Unit : mm

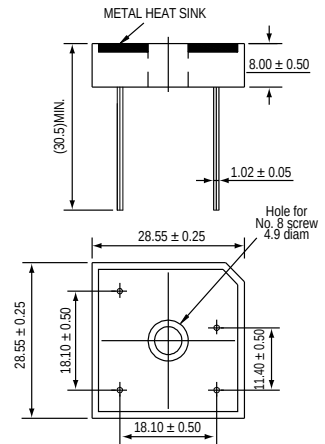
GBU
GBU-LC



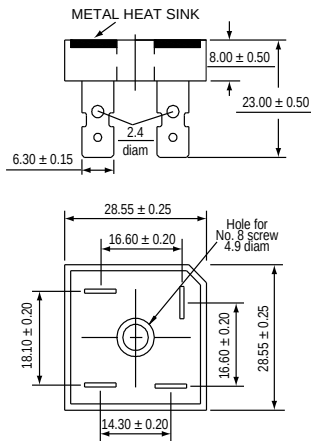
GBJ
GBJ-LB



GBPC-W



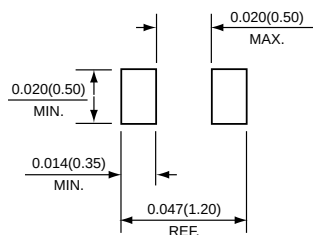
GBPC



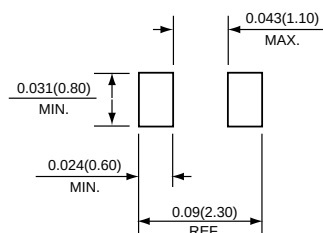
RECOMMENDED MINIMUM MOUNTING PAD LAYOUT SIZES FOR SURFACE MOUNT DEVICES

*Dimensions in inches and (millimeters)

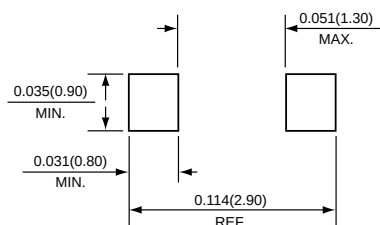
0402



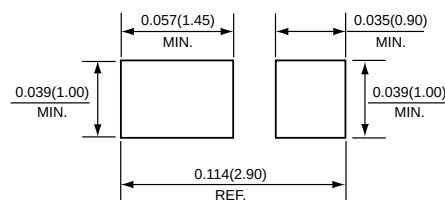
**0603
0603-D**



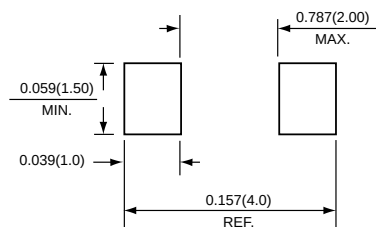
0805



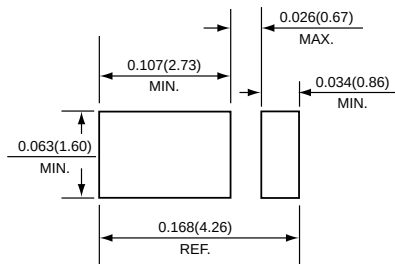
**Z1PAK
Z1PAK-S**



**1206
1206-S**

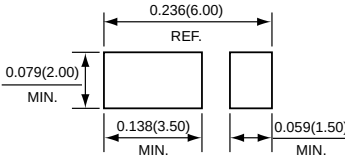
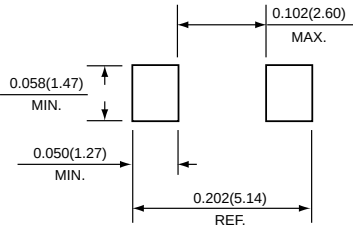
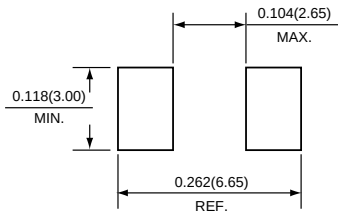
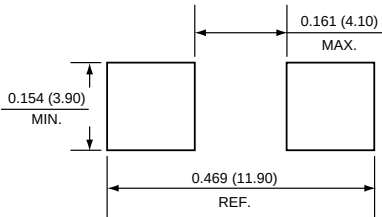
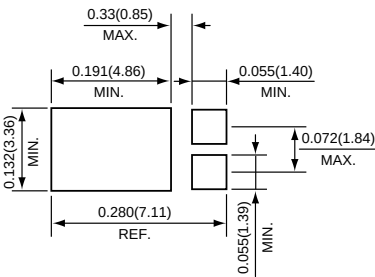
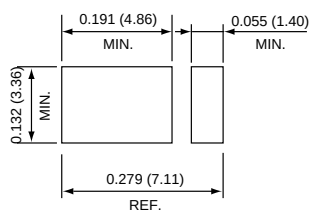


Z2PAK



RECOMMENDED MINIMUM MOUNTING PAD LAYOUT SIZES FOR SURFACE MOUNT DEVICES

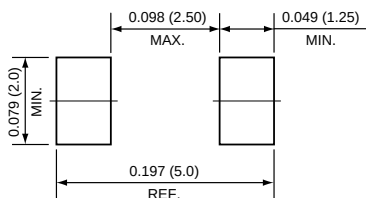
*Dimensions in inches and (millimeters)

Z2APAK 	2010 
2114 	3220 
Z3PAK 	Z3PAK-T 

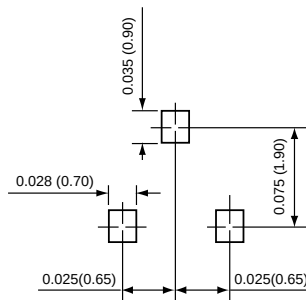
RECOMMENDED MINIMUM MOUNTING PAD LAYOUT SIZES FOR SURFACE MOUNT DEVICES

*Dimensions in inches and (millimeters)

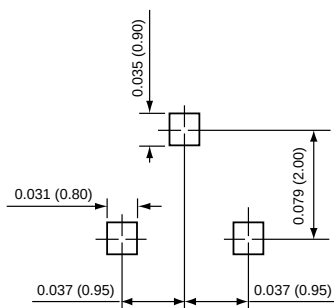
SOD-80 (LL-34)



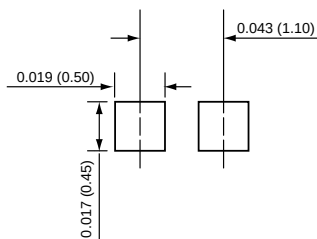
SOT-323



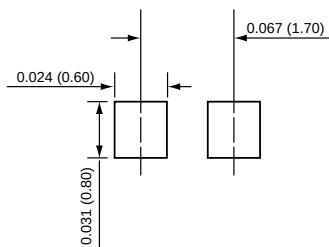
SOT-23



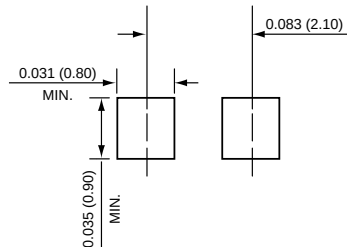
SOD-723



SOD-523



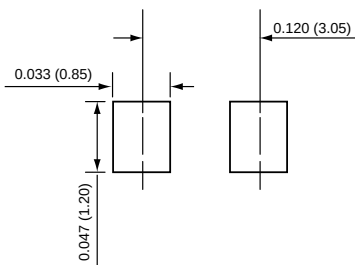
**SOD-323
SOD-323 (Flat lead)**



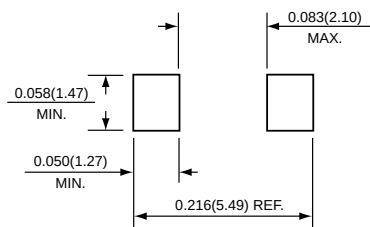
RECOMMENDED MINIMUM MOUNTING PAD LAYOUT SIZES FOR SURFACE MOUNT DEVICES

*Dimensions in inches and (millimeters)

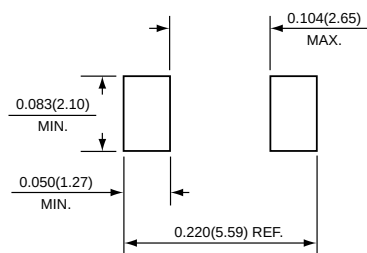
SOD-123
SOD-123 (Flat lead)



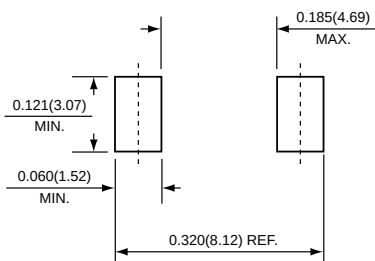
DO-214AC (SMA)



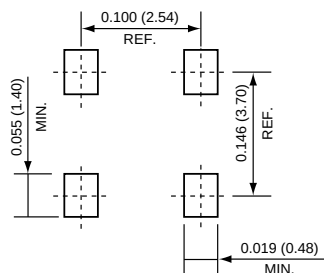
DO-214AA (SMB)



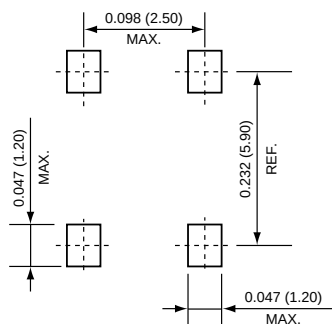
DO-214AB (SMC)



MBCN



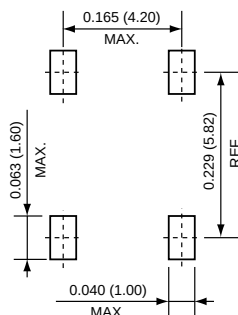
MBC



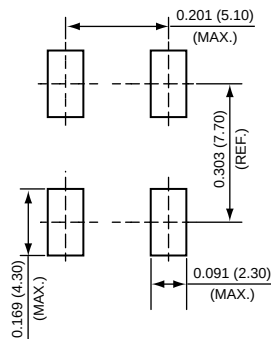
RECOMMENDED MINIMUM MOUNTING PAD LAYOUT SIZES FOR SURFACE MOUNT DEVICES

*Dimensions in inches and (millimeters)

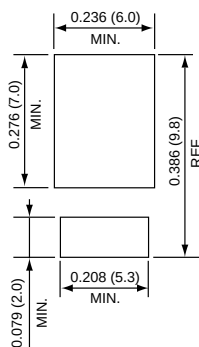
**MBCR
Z4PAK**



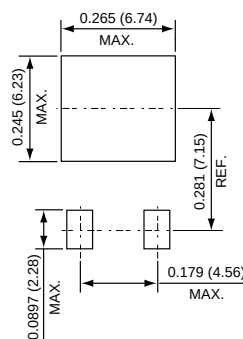
Z4PAK-D



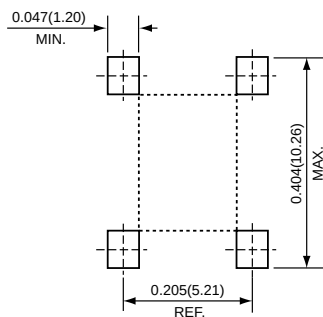
Z5PAK-T



Z6PAK



DFS





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