

GP20DL THRU GP20ML
Low VF Rectifier Diode

● **FEATURES**

- * GPRC (Glass passivated rectifier chip) inside
- * Glass passivated cavity-free junction
- * Compliance to RoHS product
- * Low forward voltage drop
- * 2.0 Ampere operation at TA=55°C with no thermal runaway
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● **APPLICATION**

- * General purpose rectification
- * Surge absorption

● **MECHANICAL DATA**

Case : DO-204AC molded plastic
Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026.
Polarity : Color band denotes cathode end
Weight : 0.4 gram

● **PACKING**

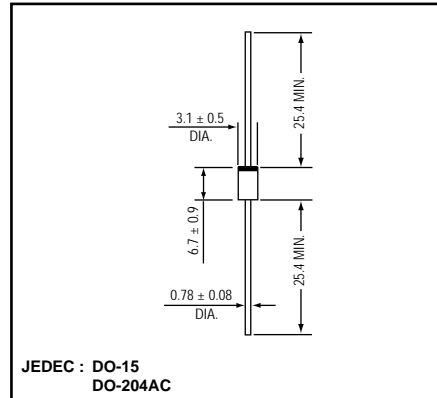
- Bulk :**
- * 500 pieces box
 - * 50 boxes per (465x215x265mm) carton
- Reel :**
- * 4,000 pieces per reel
 - * 4 reels per (340x340x330mm) carton

VF < 0.90V @IF = 2A
IFSM = 100Amp

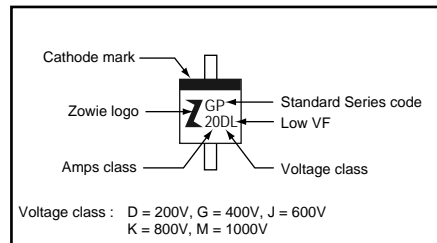
● **OUTLINE DIMENSIONS**

Case : DO-204AC

Unit : mm



● **MARKING**



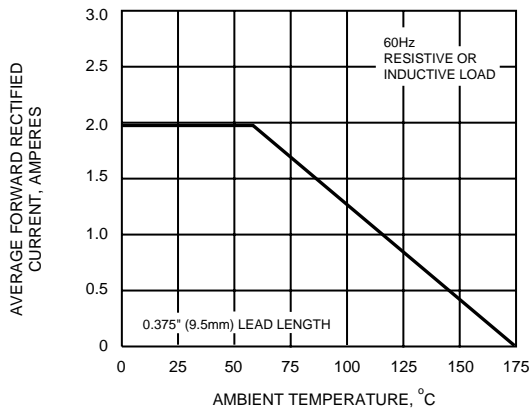
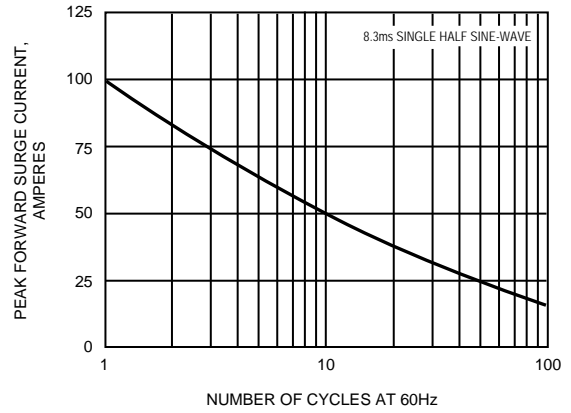
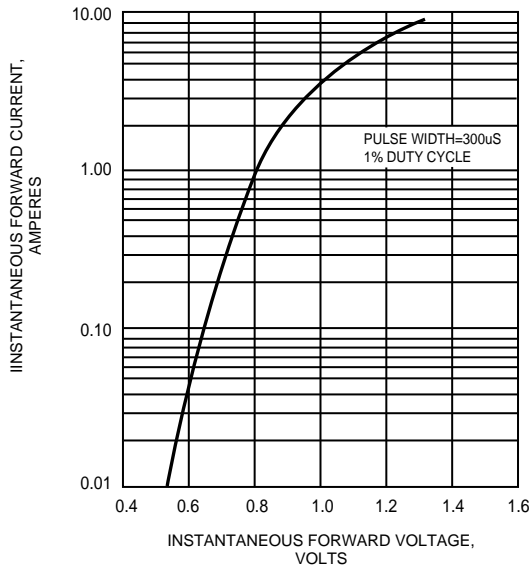
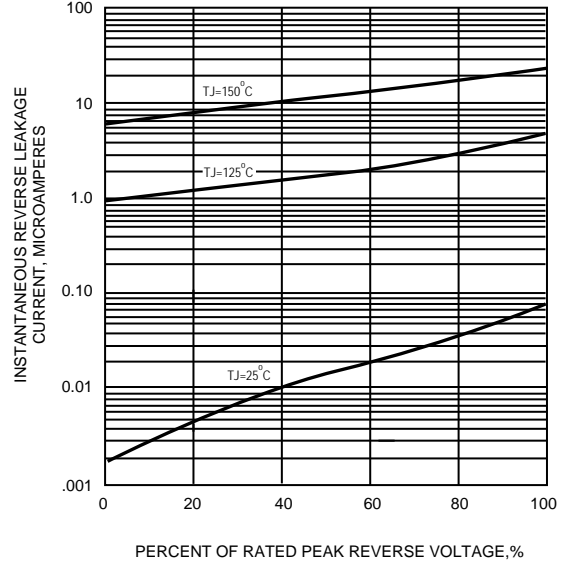
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Rating					Unit
		GP20DL	GP20GL	GP20JL	GP20KL	GP20ML	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Average forward current	IF(AV)	2.0					A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	100					
Operating junction temperature Range	Tj	-65 to +175					°C
Storage temperature Range	TSTG	-65 to +175					

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 2.0A	GP20DL	-	0.87	0.90	V
			GP20GL				
			GP20JL				
			GP20KL	-	0.90	0.92	
			GP20ML				
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		-	0.08	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	25	-	pF
Thermal resistance	Rth(JA)	Junction to ambient *		-	35	-	°C/W
	Rth(JL)	Junction to lead *		-	15	-	

* Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead lengths, P.C.B. mounted.

FIG.1 - FORWARD CURRENT DERATING CURVE

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

FIG.5 - TYPICAL JUNCTION CAPACITANCE
