

Silicon Epit axial Planar Diode

BAV19WSGH / BAV20WSGH / BAV21WSGH

Lead free product

Halogen-free type

FEATURES

- Fast Switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



APPLICATIONS

- Surface mount fast switching diode

MAXIMUM RATING @ Ta=25°C unless otherwise specified

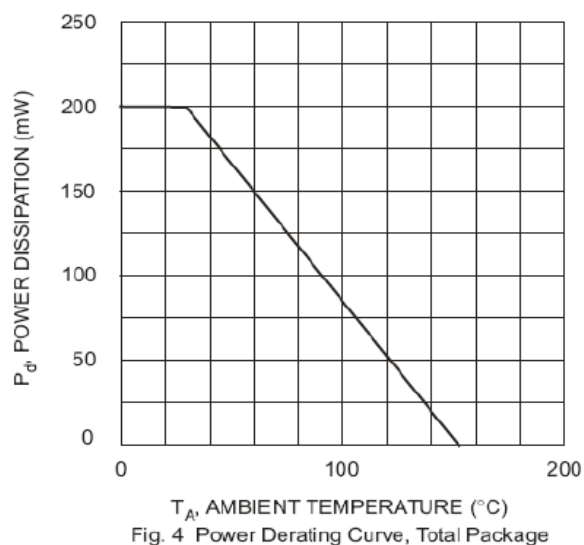
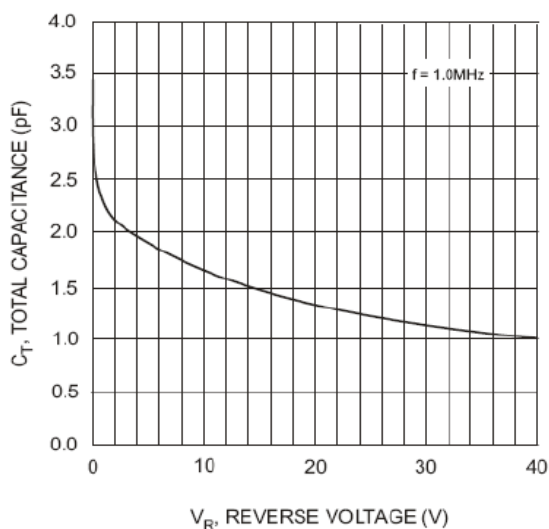
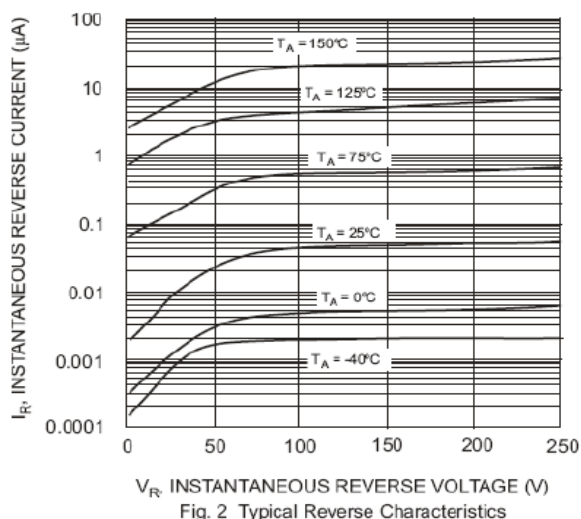
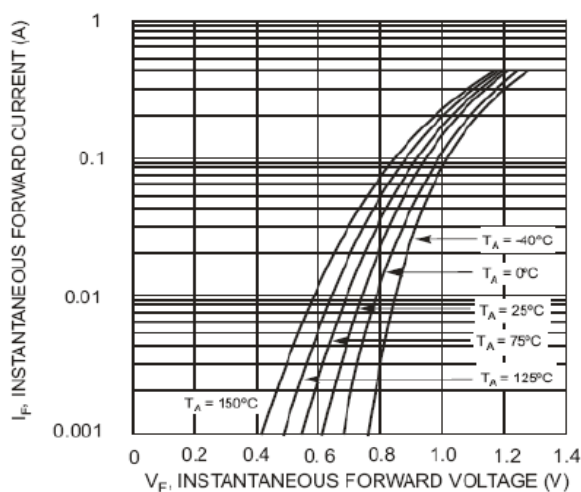
Characteristic	Symbol	BAV19WSGH	BAV20WSGH	BAV21WSGH	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Working Peak Reverse Voltage	V_{RWM}	100	150	200	V
DC Reverse Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward Continuous Current	I_{FM}	400			mA
Average Rectified Output Current	I_o	200			mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μ s @t=1.0 s	I_{FSM}	2.5 0.5			
Repetitive Peak Forward Surge Current	I_{FRM}	625			mA
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625			°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150			°C

BAV19WSGH / BAV20WSGH / BAV21WSGH

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V_{FM}	-	1.0 1.25	V	$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse Current BAV19WSGH BAV20WSGH BAV21WSGH	I_R	-	0.1 0.1 0.1	μA	$V_R=100\text{V}$ $V_R=150\text{V}$ $V=200V_R$
Capacitance between terminals	C_T	-	5	pF	$V_R=0, f=1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=30\text{mA}$, $I_{rr}=0.1 \times I_R, R_L=100\Omega$

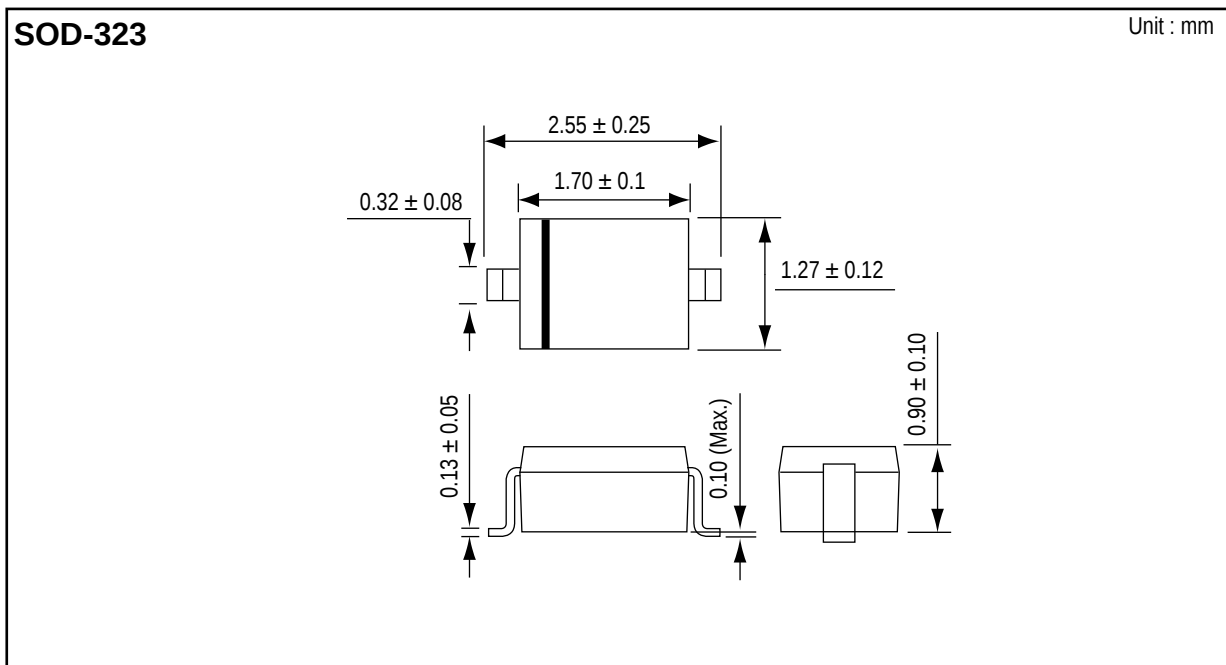
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



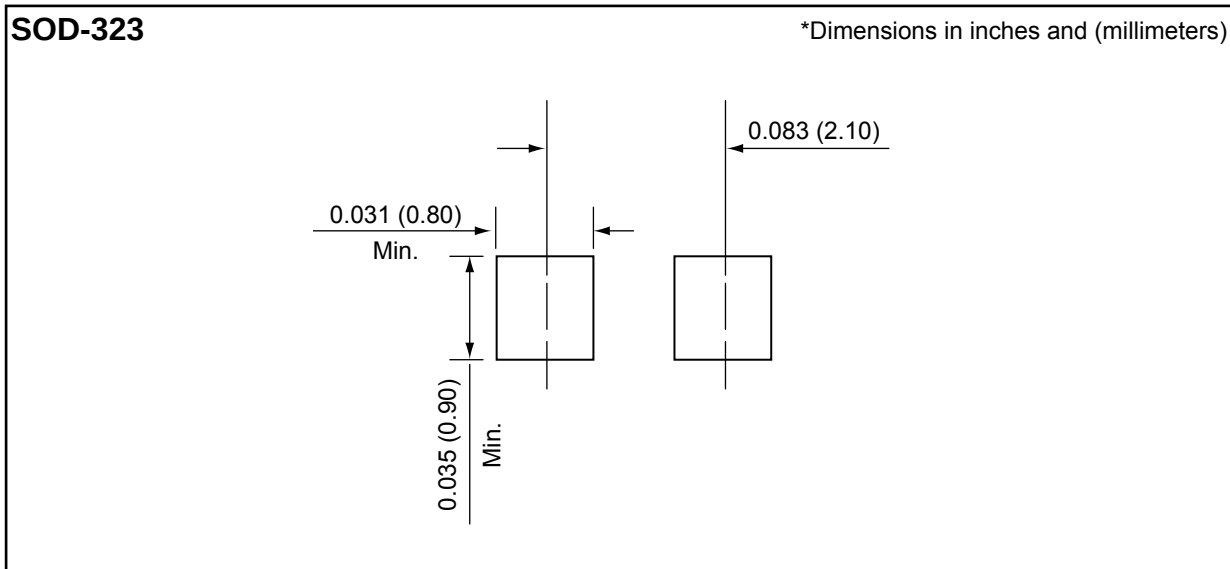
DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Reel	Reel (pcs)	Carton (pcs)	Packaging
BAV19WSGH	A8	7"	3,000	60,000 120,000	SOD-323
BAV20WSGH	T2				
BAV21WSGH	T3				

PACKAGE DIMENSIONS

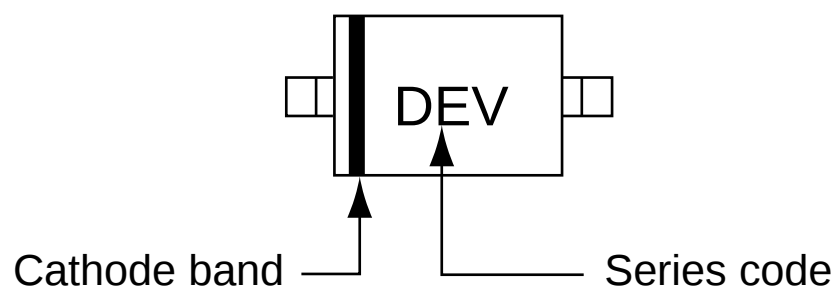


SOLDERING FOOTPRINT



MARKING DIAGRAM

SOD-323



*** Location coding features**
DEV = Device Code