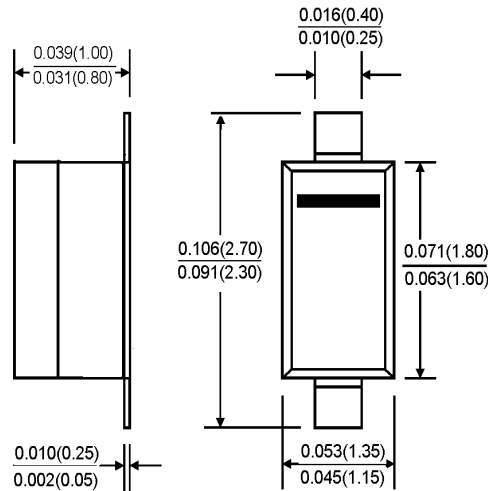


BAV19WS/BAV20WS/BAV21WS

0.2W Surface Mount Flat Lead
 High Voltage Switching Diode

SOD-323F



Features

- ✧ Flat Lead SOD-323F small outline plastic package
- ✧ Surface device type mounting
- ✧ Moisture sensitivity level 1
- ✧ Clip bonding construction, good thermal capability
- ✧ RoHS compliant
- ✧ Matte Tin (Sn) lead finish
- ✧ Band indicates cathode

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P _d	200	mW
Repetitive Peak Reverse Voltage	V _{RRM}	250	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-Repetitive Peak Forward Surge Current @Pulse Width=1.0 Second @ Pulse Width=1.0usecond	I _{FSM}	4.0 1.0	A
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Breakdown Voltage BAV19WS @ 100uA BAV20WS @ 100uA BAV21WS @ 100uA	B _V	120 200 250		V
Reverse Leakage Current BAV19WS BAV20WS BAV21WS	I _R		100 100 100	nA
Forward Voltage (Note 3) @ I _F =100mA @ I _F =200mA	V _F		1.0 1.25	V
Junction Capacitance V _R =0, f=1.0MHz	C _j		5.0	pF
Reverse Recovery Time (Note 1)	t _{rr}		50	nS

Note: 1 Reverse Recovery Test Conditions: I_F=I_R=30mA, I_{rr}=3mA, R_L=100Ω.

RATINGS AND CHARACTERISTIC CURVES (BAV1WS/BAV20WS/BAV21WS)

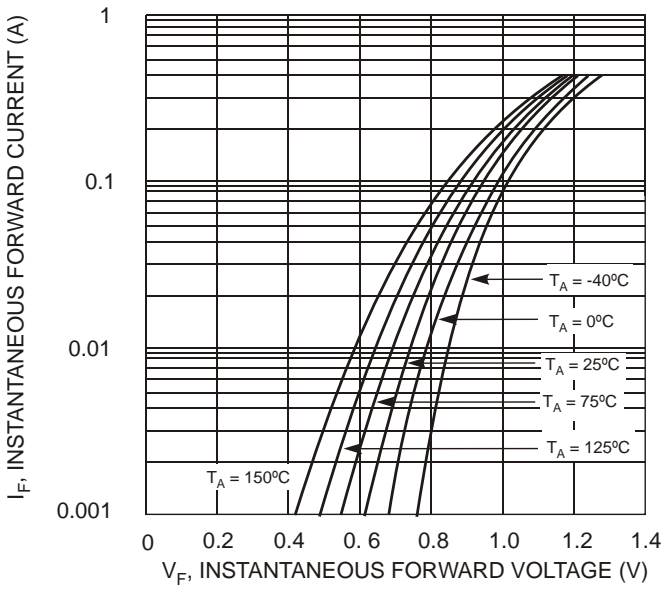


Fig. 1 Typical Forward Characteristics

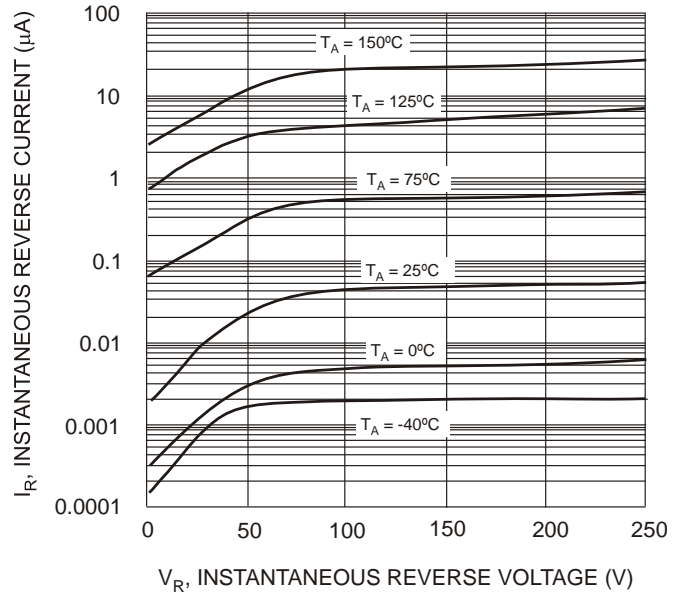


Fig. 2 Typical Reverse Characteristics

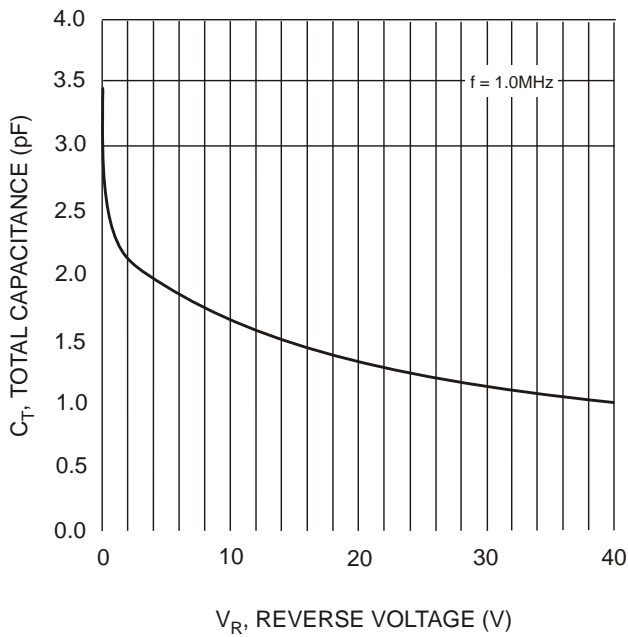


Fig. 3 Typical Capacitance vs. Reverse Voltage

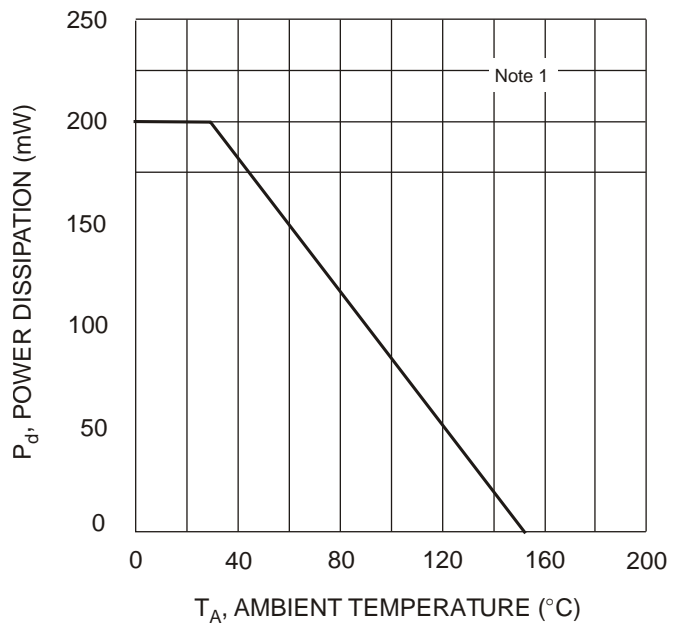


Fig. 4 Power Derating Curve