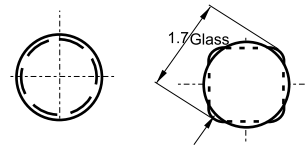
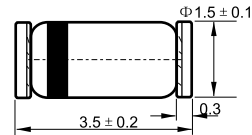




### MINI MELF



Dimension in millimeters

### Features

- ✧ High Voltage Switching Device
- ✧ Mini Melf package
- ✧ Surface device type mounting
- ✧ Hermetically sealed glass
- ✧ Compression bonded construction
- ✧ All external surface are corrosion resistant and leads are readily solderable
- ✧ RoHS compliant
- ✧ Matte Tin (Sn) lead finish
- ✧ Color band indicates Negative Polarity

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

#### Maximum Ratings

Type Number	Symbol	Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	250	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non- Repetitive Peak Forward Surge Current	$I_{FSM}$	1.0	A
Pulse Width = 1.0 Second		4.0	
Power Dissipation	$P_d$	500	mW
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to + 200	°C

#### Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Breakdown Voltage	$B_V$	60		V
BAV100 IR=100uA		120		
BAV101 IR=100uA		200		
BAV103 IR=100uA		250		
Forward Voltage	$V_F$		1.0	V
Peak Reverse Current	$I_R$	-	100	nA
BAV100 VR=50V			100	
BAV101 VR=100V			100	
BAV102 VR=150V			100	
BAV103 VR=200V	100			
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$		350	°C/W
Junction Capacitance	$C_j$	-	5.0	pF
Reverse Recovery Time (Note)	$t_{rr}$	-	50	nS

Notes: Reverse Recovery Test Conditions:  $I_F=I_R=30mA$ ,  $I_{rr}=3mA$ ,  $R_L=100\Omega$ .

### RATINGS AND CHARACTERISTIC CURVES (BAV100/101/102/103)

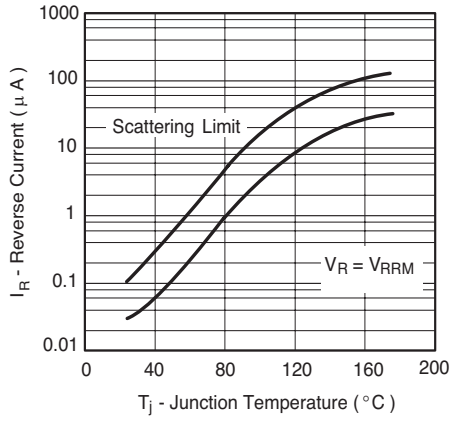


Fig. 1 Reverse Current vs. Junction Temperature

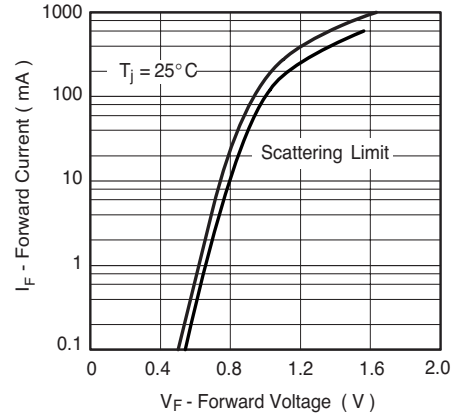


Fig. 2 Forward Current vs. Forward Voltage

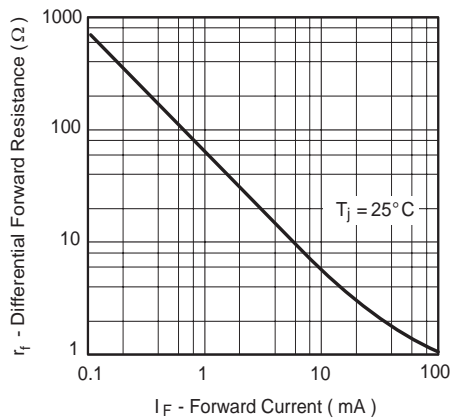


Fig. 3 Differential Forward Resistance vs. Forward Current