

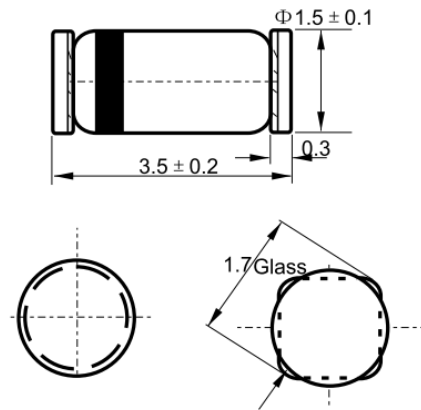
Hermetically Sealed Glass High Voltage Switching Diode

Primary characteristics			
Parameter	Symbol	Value	Unit
Reverse voltage	V_{RRM}	250	V
Forward current	$I_{F(AV)}$	200	mA
Power dissipation	P_D	500	mW

Features

- High voltage switching device
- Surface device type mounting
- Hermetically sealed glass
- Compression bonded construction
- Mini Melf package
- All external surface is corrosion resistant
- Color band indicates negative polarity

Case dimensions



Dimension in millimeters

MINI MELF

Maximum Ratings ($T_a = 25^\circ\text{C}$, unless otherwise noted, Single phase, half wave, 60hz, resistive or inductive load for capacitance load, derate current by 20%)

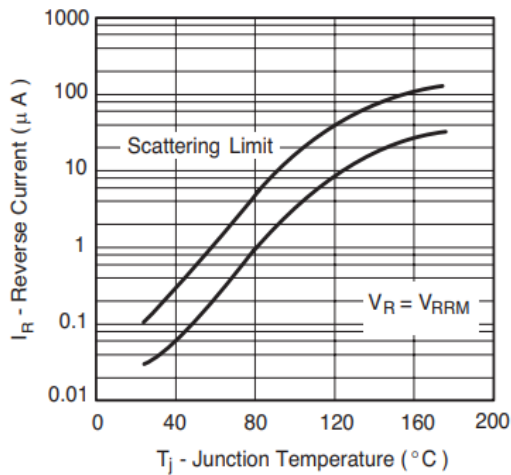
Parameter	Symbol	Limit	Unit
Repetitive peak reverse voltage	V_{RRM}	250	V
Average rectified forward current	$I_{F(AV)}$	200	mA
Non-repetitive peak forward surge current	I_{FSM}	Pulse width = 1.0 s	1.0
		Pulse width = 1.0 μs	4.0
Power dissipation	P_D	500	mW
Operation junction and storage temperature range	T_J, T_{STG}	-65~+200	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

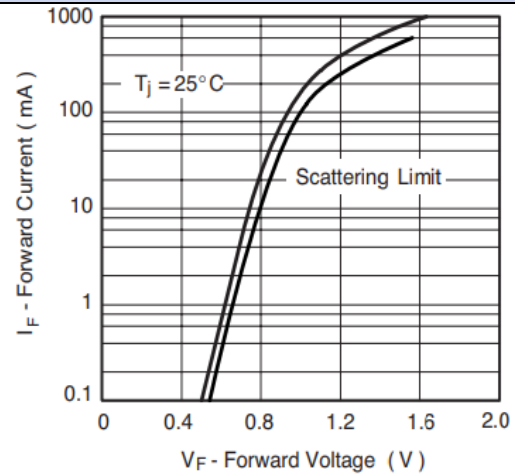
Parameter	Symbol	Conditions	Min	Max	Unit
Reverse breakdown voltage	B_V	$I_R=100\mu\text{A}$	250	-	V
Forward voltage	V_F	$I_F=100\text{mA}$	-	1.0	V
Peak reverse current	I_R	$V_R=200\text{V}$	-	100	nA
Thermal resistance junction to ambient	$R_{\theta JA}$	-	-	350	$^\circ\text{C/W}$
Junction capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$	-	5.0	pF
Reverse recovery time	t_{rr}	$I_F=I_R=30\text{mA},$ $I_{rr}=3\text{mA}, R_L=100\Omega$	-	50	ns

Typical Characteristics

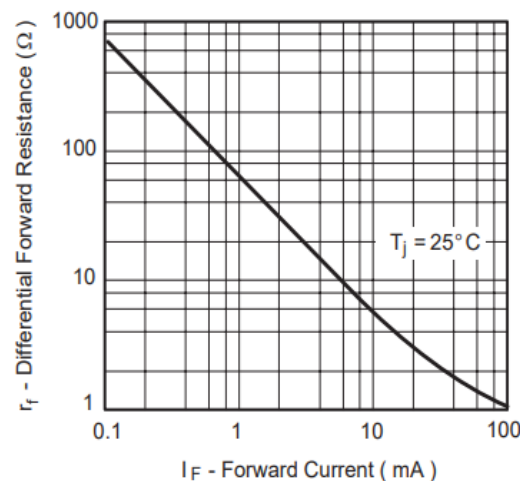
Reverse current vs. junction temperature



Forward current vs. forward voltage



Differential forward resistance vs forward current



Ordering information

Part Number	Package	Shipping Quantity	Dimensions
BAV103	Mini Melf	2500 pcs / reel	---

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