

Hermetically Sealed Glass High Voltage Switching Diodes

FEATURES

- High voltage switching device
- Ideal for automated placement
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and leads are readily solderable
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21









MECHANICAL DATA

- Polarity: Indicated by black cathode band

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	1	VALUE		UNIT	
Power dissipation		P _D		500		mW
Repetitive peak reverse voltage		V_{RRM}	76	250		V
Average rectified forward current		I _{F(AV)}		200		mA
Non-repetitive peak forward	Pulse width = 1.0 s			1.0		۸
surge current	Pulse width = 1.0 μs	FSM	70'	4.0		А
Operating and storage temperature range		T_J , T_STG		-65 to +200		°C

Electrical Characteristics

	PARAMETER	SYMBOL	MIN	MAX	UNIT
	BAV100 I _R = 100 μA		60		
Breakdown voltage	BAV101 I _R = 100 μA		120		V
	BAV102 I _R = 100 µA	B_V	200	-	V
	BAV103 I _R = 100 μA		250		
Forward voltage	I _F = 100 mA	V _F	-	1.0	V
Peak reverse current	BAV100 $V_R = 50 \text{ V}$			100	
	BAV101 $V_R = 100 V$			100	nA
	BAV102 $V_R = 150 V$	I _R		100	IIA
	BAV103 $V_R = 200 V$			100	
Thermal resistance, junction	on to ambient	$R_{\theta JA}$;	350	°C/W
Junction capacitance	$V_{R} = 0$, $f = 1.0 \text{ MHz}$	CJ	-	5.0	pF
Reverse recovery time	(Note)	t _{rr}	-	50	ns

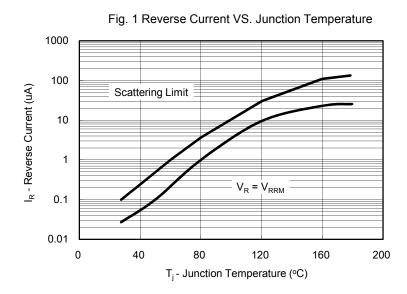
Notes : Reverse recovery test conditions : I_F = I_R = 30 mA , I_{rr} = 3 mA , R_L = 100 Ω

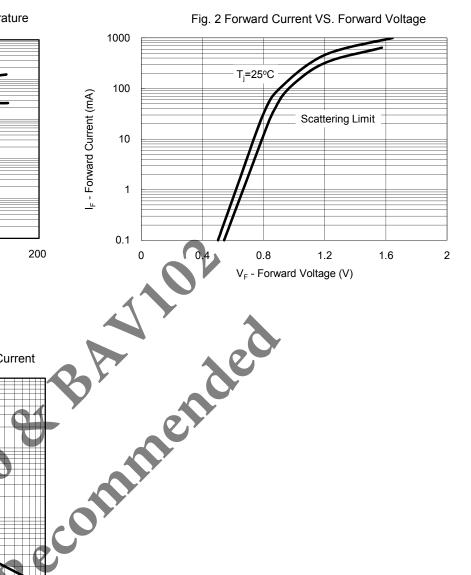
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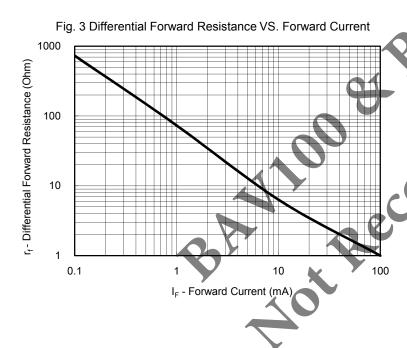


RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







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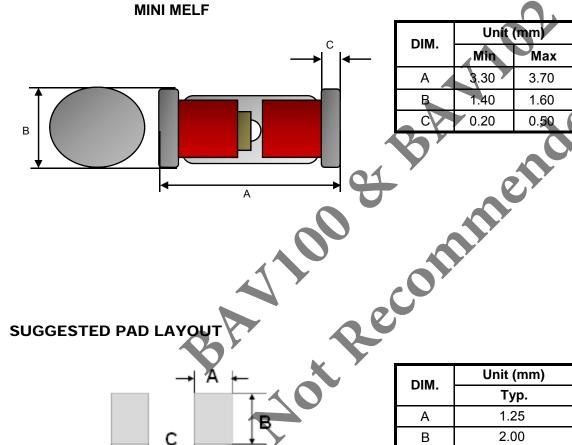
ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
BAV10x	L0	G	MINI MELF	10K / 13" Reel
(Note 1)	L1		WIINI WELF	2.5K / 7" Reel

Note 1: "x" is device code from "0" - "3", detail could follow the previous page

^{*:} Whole series with "G", packing code with suffix "G" means halogen free

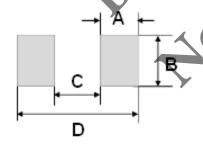
EXAMPLE				
EXAMPLE P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
BAV100 L0G	BAV100	L0	G	Green compound

DIMENSIONS



DIM.	Unit (mm)		Unit	(inch)
DIIVI.	Min	Max	Min	Max
A	3.30	3.70	0.130	0.146
В	1.40	1.60	0.055	0.063
C	0.20	0.50	0.008	0.020

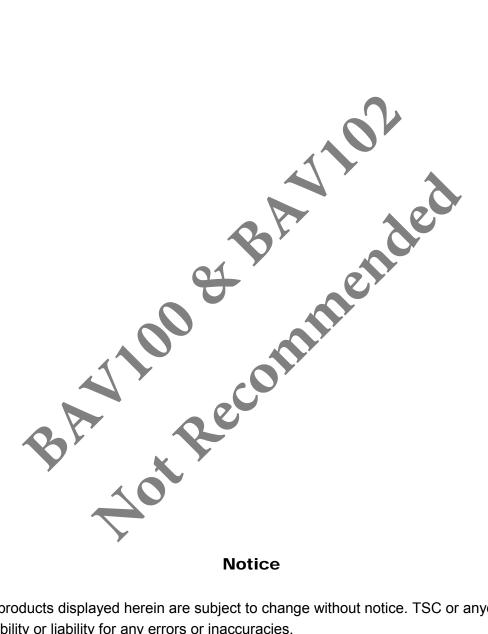
SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)	
DIIVI.	Тур.	Тур.	
Α	1.25	0.049	
В	2.00	0.079	
С	2.50	0.098	
D	5.00	0.197	

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