

BAV301~BAV303

HIGH VOLTAGE SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120 to 250 Volts **POWER** 300 mWatts

MICRO-MELF

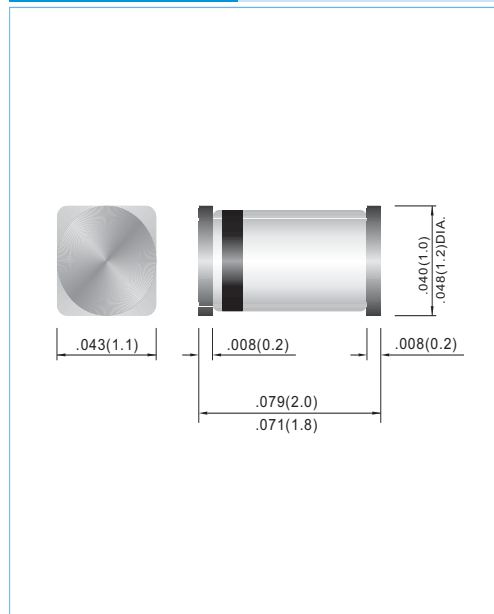
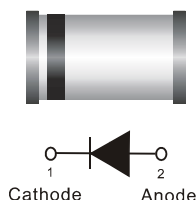
Unit : inch (mm)

FEATURES

- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxial Planar Construction.
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: Micro Melf, Glass
- Terminals: Solderable per MIL-STD-202E, Method 208
- Polarity: Cathode Band
- Marking: Cathode Band Only



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAV301	BAV302	BAV303	UNITS
Reverse Voltage	V_R	100	150	200	V
Peak Reverse Voltage	V_{RRM}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and $f \geq 50$ Hz	I_O	200			mA
Peak Forward Surge Current, $t=1000$ ms	I_{FSM}	1.0			A
Power Dissipation Derate Above at 25°C	P_D	300			mW
Maximum Forward Voltage, $I_F = 100$ mA	V_F	1.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$	I_R	0.1			μA
Typical Junction Capacitance(Note 1)	C_J	3.0			pF
Maximum Reverse Recovery (Note 2)	t_{rr}	75			ns
Typical Thermal Resistance	$R_{\theta JA}$	350			$^\circ\text{C} / \text{W}$
Operation Junction Storage Temperature Range	T_{STG}	-65 to +175			$^\circ\text{C}$

NOTE:

1. C_J at $V_R=0$, $f=1$ MHZ
2. From $I_F=10$ mA to $I_R=-1$ mA, $V_R=6$ Volts, $R_L=100\Omega$

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RATING AND CHARACTERISTIC CURVES

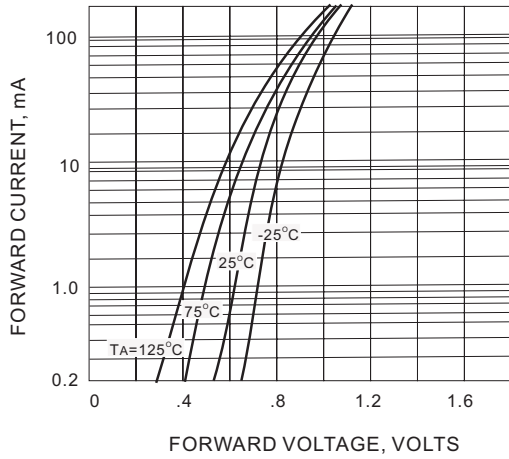


Fig. 1 FORWARD CHARACTERISTICS

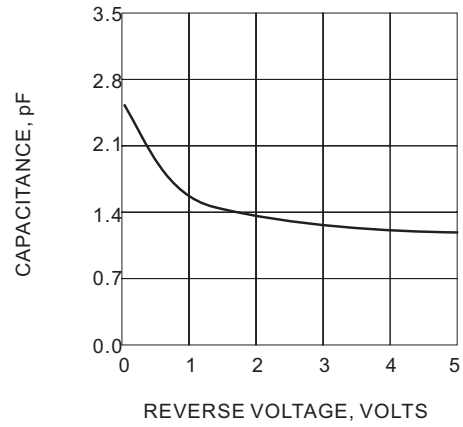


Fig. 2 TYPICAL CAPACITANCE vs REVERSE VOLTAGE

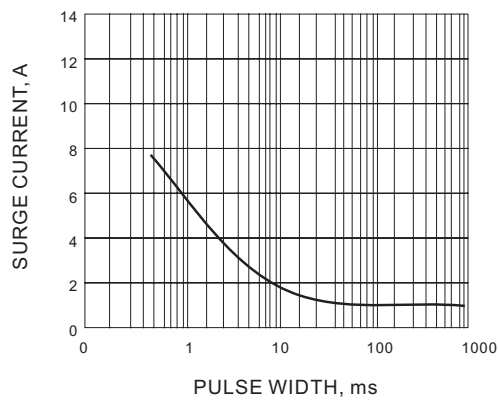


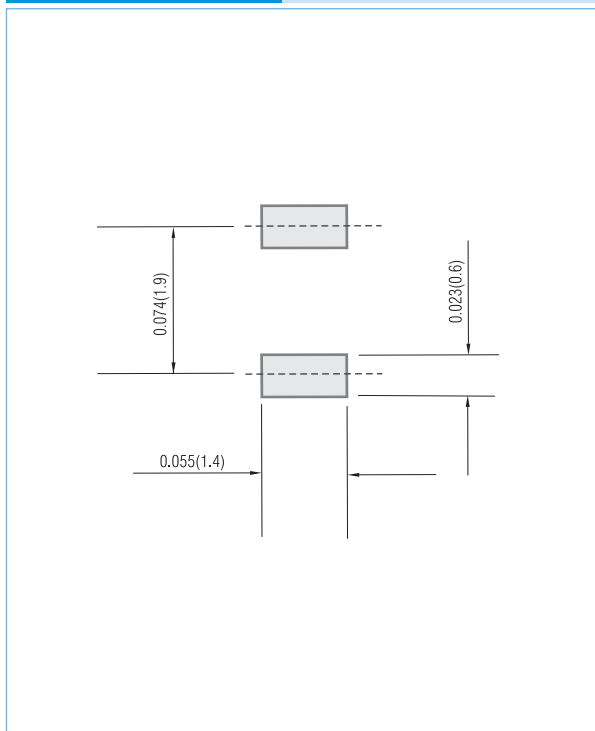
Fig. 3 SURGE CURRENT CHARACTERISTIC

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MOUNTING PAD LAYOUT

MICRO-MELF

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

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Part No_packing code_Version

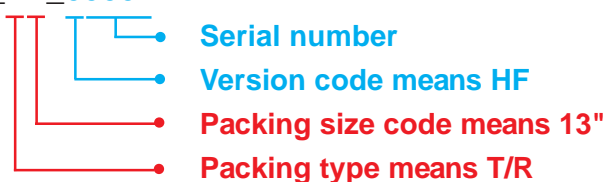
BAV301_R1_00001

BAV301_R2_00001

For example :

RB500V-40_R2_00001

Part No.



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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