

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 Epitaxal 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 .043(1.1) .008(0.2) .008(0.2) · Polarity: Cathode Band .079(2.0) Marking: Cathode Band Only .071(1.8) · Weight: 0.01 grams Packing information T/R - 3K per 7" plastic reel T/R - 10K per 13" plastic reel

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

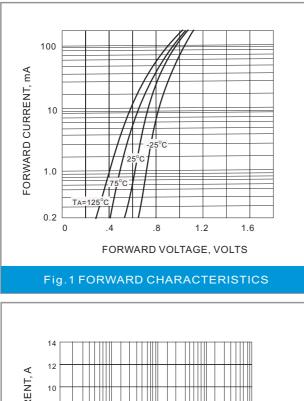
PARAMETER	SYMBOL	BAV301	BAV302	BAV303	UNITS
Reverse Voltage	V _R	100	150	200	v
Peak Reverse Voltage	V _{rrm}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	I _o	200			mA
Peak Forward Surge Current, t=1000ms	I _{fsm}		A		
Power Dissipation Derate Above at 25°C	P _D	300			mW
Maximum Forward Voltage, I _F = 100mA	V _F	1.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.1			μA
Typical Junction Capacitance(Note 1)	C」	3.0			pF
Maximum Reverse Recovery (Note 2)	t _{rr}	75			ns
Typical Thermal Resistance	R _{eja}	350			°C / W
Operation Junction Storage Temperature Range	T _{stg}	-65 to +175			°C

NOTE:

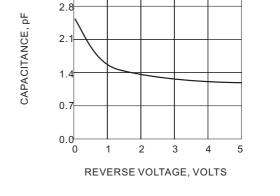
1. CJ at VR=0, f=1MHZ

2. From IF=10mA to IR=-1mA, VR=6Volts, RL=100 Ω





RATING AND CHARACTERISTIC CURVES



3.5₁

Fig.2 TYPICAL CAPACITANCE vs REVERSE VOLATGE

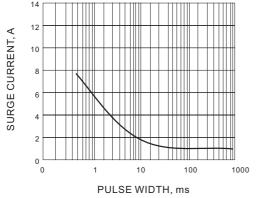
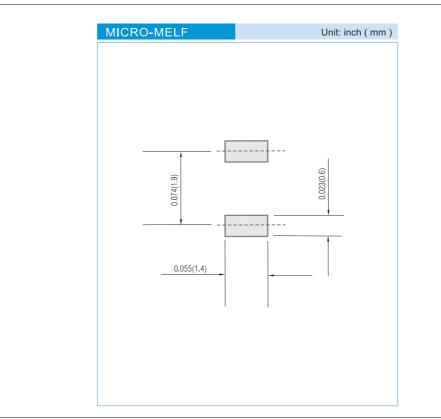


Fig.3 SURGE CURRENT CHARACTERISTIC



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
- T/R 10K per 13" plastic Reel
- T/R 3K per 7" plastic Reel



Part No_packing code_Version

BAV301_R1_00001 BAV301_R2_00001

For example :

RB500V-40_R2_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

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)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	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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