

HIGH VOLTAGE SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120 to 250 Volts POWER 300 mWatts MICRO-N

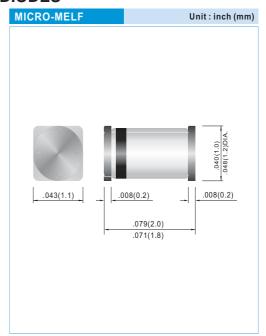
FEATURES

- 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
- Polarity: Cathode Band
- Marking: Cathode Band Only
- Weight: 0.01 gramsPacking information

T/R - 2.5K per 7" 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	Io		mA		
Peak Forward Surge Current, t=1000ms	I _{FSM}		А		
Power Dissipation Derate Above at 25°C	P _D		mW		
Maximum Forward Voltage, I _F = 100mA	V _F		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.1			μА
Typical Junction Capacitance(Note 1)	C J	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

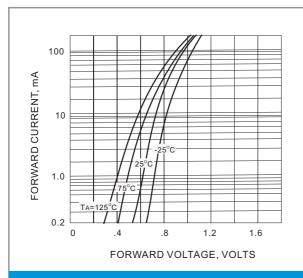


Fig.1 FORWARD CHARACTERISTICS

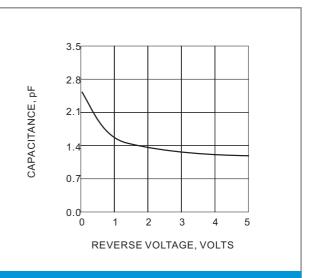


Fig.2 TYPICAL CAPACITANCE vs REVERSE VOLATGE

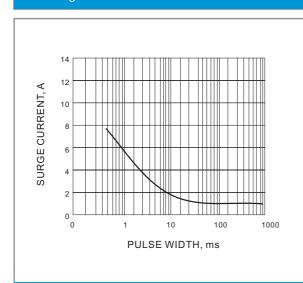
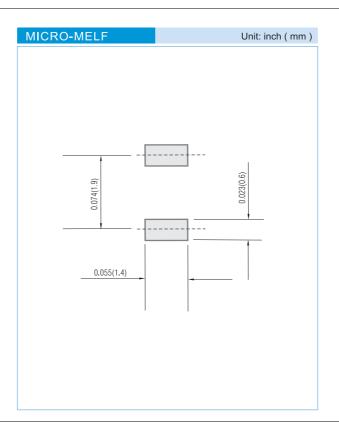


Fig.3 SURGE CURRENT CHARACTERISTIC



MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel



Part No_packing code_Version

BAV301_R1_00001 BAV301_R2_00001

For example :



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)	В	13"	2					
Tube Packing (T/P)	Т	26mm	Х					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ					
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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