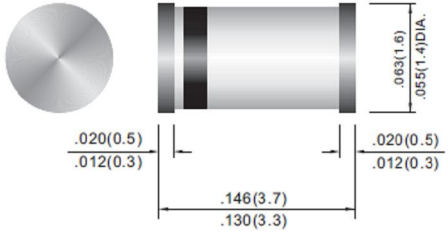
BAV101 THRU BAV103

High Voltage Surface Mount Switching Diodes

Voltage 120 to 250 volts Power 300 mwatts

MINI-MELF/LL-34



Unit: inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Silicon expitaxal planar construction
- Both normal and Pb free product are available:
  Normal:80~95% Sn, 5~20% Pb
  Pb free:98.5% Sn above

MECHANICAL DATA

Case:Mini Melf, Glass
Terminals: Solderable per MIL-STD-202E, method 208
Approx: Weight:0.03 gram
Polarity: Cathode band
Marking: Cathode band only

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

TJ=25°C unless otherwise noted

PARAMETR	SYMBOLS	BAV101	BAV102	BAV103	UNITS
Reverse Voltage	V_R	100	150	200	Volts
Peak Reverse Voltage	V_{RM}	120	200	250	Volts
Rectified Current(Average), Half Wave Rectification with Resistive Load and f>=50Hz	Io	200			mAmps
Peak forward surge current, t=1.0s	I_{FSM}	1.0			Amps
Power Dissipation Derate Above at 25°C	P_D	300			mWatts
Maximum Forward Voltage, I_F =100mA	V_R	1.0			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C	I_R	0.1			uA
Typical junction capacitance (NOTE 1)	C_J	0.95			pF
Maximum Reverse Recovery (NOTE 2)	T_{RR}	75			ns
Maximum Thermal Resistance	$R_{\Theta JA}$	350			°C/W
Operation Junction Storage Temperature Range	T_{STG}	-65 to +125			°C

NOTES:

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

2.From I_F=10mA to I_R=1mA, V_R=6 volts, R_L=100Ω

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Characteristics

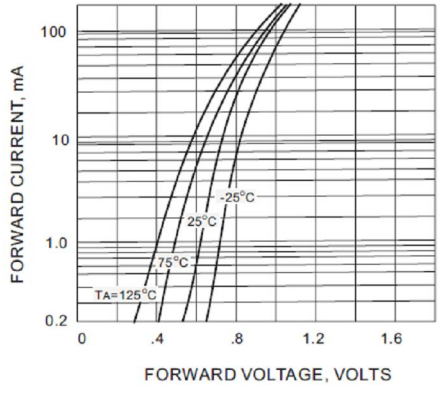


Fig.2 Typical Capitance vs Reverse Voltage

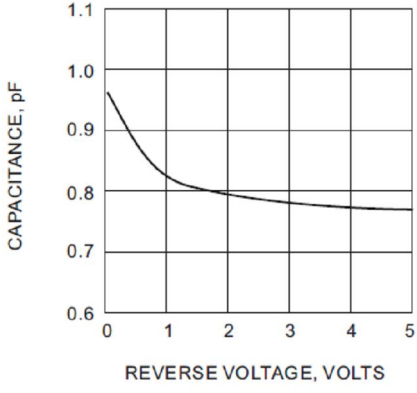


Fig.3 Surge Current Characteristic