



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 120-250 Volt POWER

410mWatt

FEATURES

- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- · Electrically Identical to Standard JEDEC
- · High Conductance
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

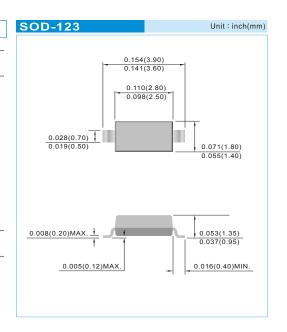
Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0004 ounces, 0.01 grams







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAV19W	BAV20W	BAV21W	UNITS
Marking Code		A8	A80	A82	
Reverse Voltage	VR	100	150	200	V
Peak Reverse Voltage	VRM	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo		mA		
Peak Forward Surge Current,1ms	IFSM		Α		
Power Dissipation Derate Above 25°C	Ртот		mW		
Maximum Forward Voltage at 0.1A	VF	1			V
Maximum Reverse Current at TJ=25°C	lR	0.1@100	0.1@150	0.1@200	uA
Typical Junction Capacitance(Notes1)	Cl	5			pF
Maximum Reverse Recovery (Notes2)	Trr	50			ns
Typical Thermal Resistance	R⊕JA	450			°C / W
Operating Junction and Storage Temperature Range	Тл, Твтв	-55 to +150			°C

NOTE:

1. CJ at $V_R=0$, f=1MHZ

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

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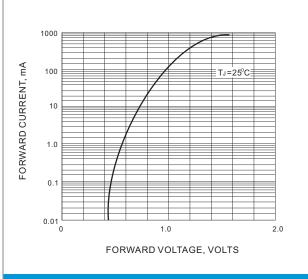


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

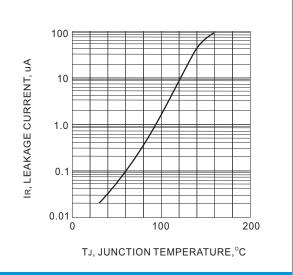


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE

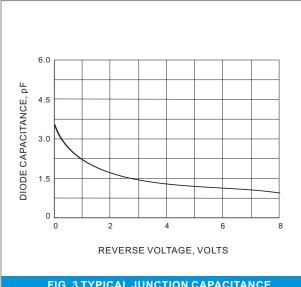


FIG. 3 TYPICAL JUNCTION CAPACITANCE

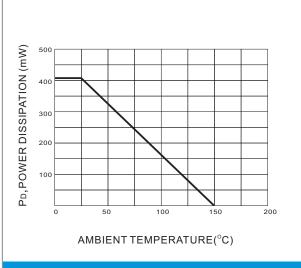
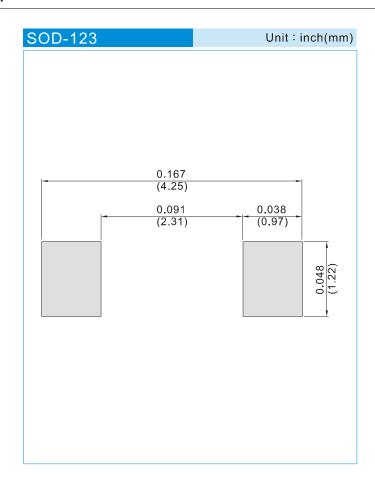


FIG. 4 POWER DERATING CURVE





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

BAV19W_R1_00001 BAV19W_R2_00001

For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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)	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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