



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

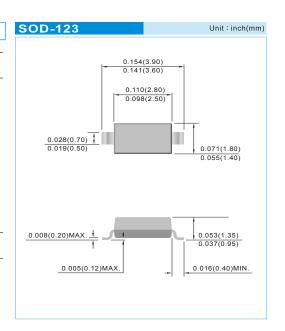
Case: SOD-123, Plastic

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%.

SYMBOL	BAV19W BAV20W BAV21		BAV21W	UNITS
	A8	A80	A82	
VR	100	150	200	V
VRM	120	200	250	V
lo	200			mA
IFSM	4			Α
Ртот	410			mW
VF	1			V
lR	0.1@100	0.1@150	0.1@200	uA
Cl	5			pF
Trr	50			ns
R⊕JA	450			°C / W
Тл, Тэтс	-55 to +150			°C
	VR VRM IO IFSM PTOT VF IR CJ TRR RΘJA	A8 VR 100 VRM 120 Io IFSM PTOT VF IR 0.1@100 CJ TRR RΘJA	A8 A80 VR 100 150 VRM 120 200 Io 200 IFSM 4 PTOT 410 VF 1 IR 0.1@100 0.1@150 CJ 5 TRR 50 RΘJA 450	A8 A80 A82 VR 100 150 200 VRM 120 200 250 Io 200 IFSM 4 PTOT 410 VF 1 IR 0.1@100 0.1@150 0.1@200 CJ 5 TRR 50 RΘJA 450

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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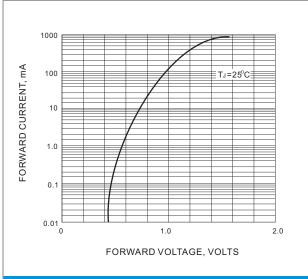


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

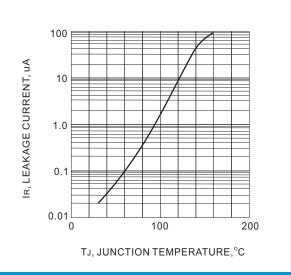
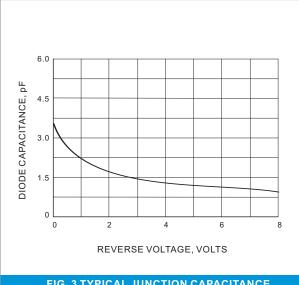
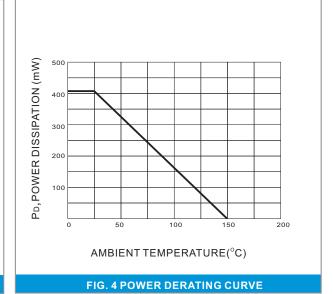


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE





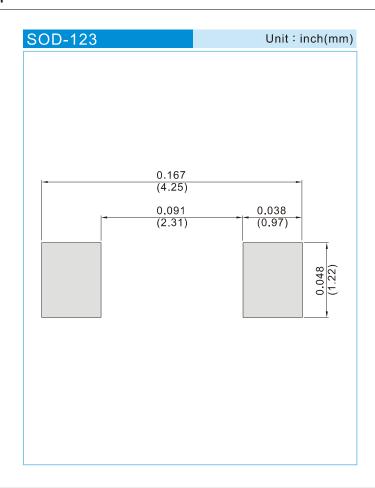


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MOUNTING PAD LAYOUT



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	1st 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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