



DATA SHEET

1N4148WS,1N4448WS,BAV16WS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts POWER 200mWatts

FEATURES

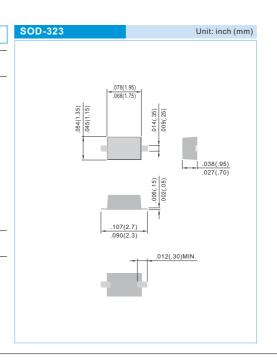
- · Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- · High Conductance
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

MECHANICAL DATA

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Approx. Weight: 4.1mg



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	1N4148W S	1N4448W S	BAV16W S	UNITS
Marking Code		A 2	A 3	A 6	
Reverse Voltage	V R	75			V
Peak Reverse Voltage	Vrm	100			V
RMS Voltage	VRMS	50			V
Maximum DC Blocking Voltage	VDC	75			V
Maximum Average Forward CurrentatTa=25°C	ĪΑV	200			m A
Peak Forward Surge Current, 1.0us	Irsm	2	4	2	А
Power Dissipation Derate Above 25°C	Ртот	200			m W
Maximum Forward Voltage	VF	0.715 @ 0.001A 0.855 @ 0.01A 1.0 / 0.05A 1.25 @ 0.15A	0.72 @ 0.005A 1.0 @ 0.1A	0.855 @ 0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Īĸ	0.025 @ 20V 2.5 @ 75V	2.5 @ 75V	1.0 @ 75V	uA
Junction Capacitance (Notes1)	СJ	1.5	4 .0	2.0	pF
Maximum Reverse Recovery (Notes2)	Trr	4	4	6	ns
Maximum ThermalResistance	R Ө ЈА	640			°C /W
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 TO +150			°C

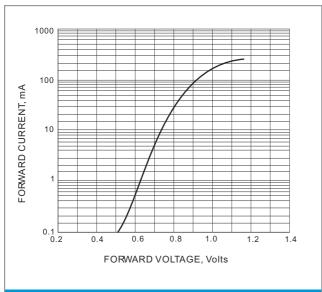
NOTE:

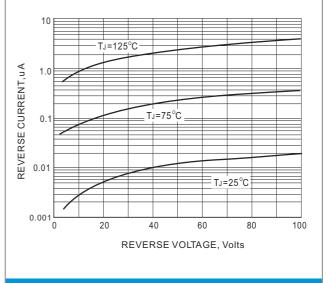
- 1. CJ at VR=0, f=1MHZ
- 2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 Ω

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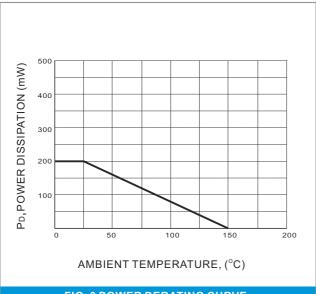


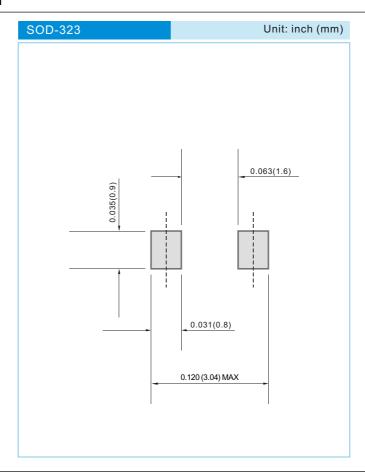
FIG. 3 POWER DERATING CURVE

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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