



1N4148WS, 1N4448WS, BAV16WS

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

SOD-323 Unit: inch (mm)

FEATURES

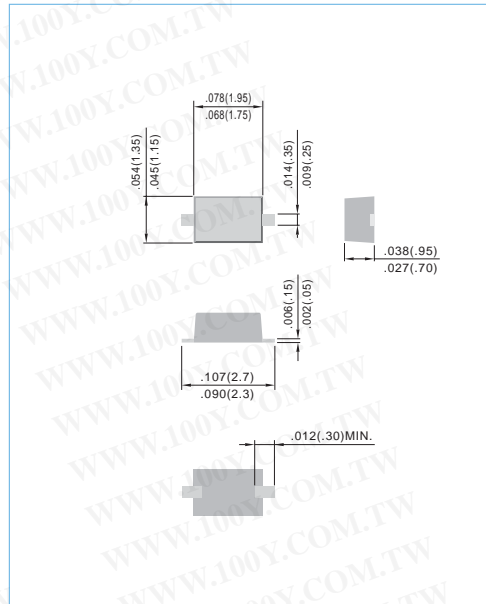
- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOD-323, Plastic

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

Approx. Weight: 0.008 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	1N4148WS	1N4448WS	BAV16WS	UNITS
Marking Code		A2	A3	A6	
Reverse Voltage	V _R	75			V
Peak Reverse Voltage	V _{RM}	100			V
RMS Voltage	V _{RMS}	50			V
Maximum DC Blocking Voltage	V _{DC}	75			V
Maximum Average Forward Current at T _A =25°C	I _{AV}	200			mA
Peak Forward Surge Current, 0.001ms	I _{FSM}	4			A
Power Dissipation Derate Above 25°C	P _{TOT}	200			mW
Maximum Forward Voltage	V _F	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	I _R	0.025 @ 20V 2.5 @ 75V	2.5 @ 75V	1.0 @ 75V	uA
Junction Capacitance(Notes1)	C _J	1.5	4.0	2.0	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	4	4	6	ns
Maximum Thermal Resistance	R _{θJA}	640			°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150			°C

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω



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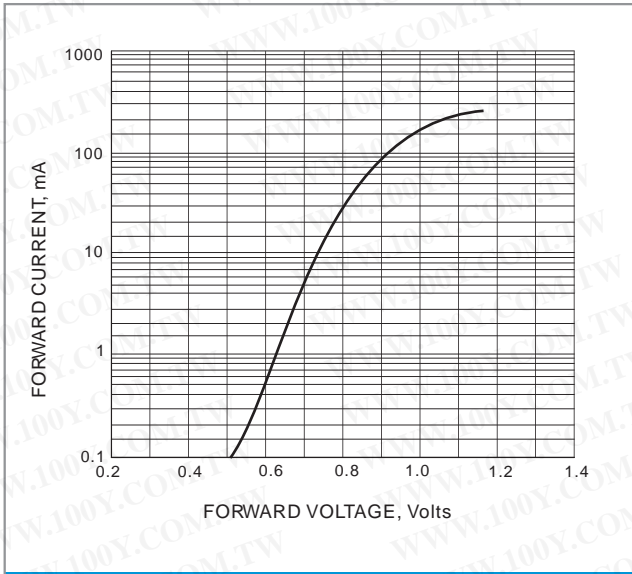


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

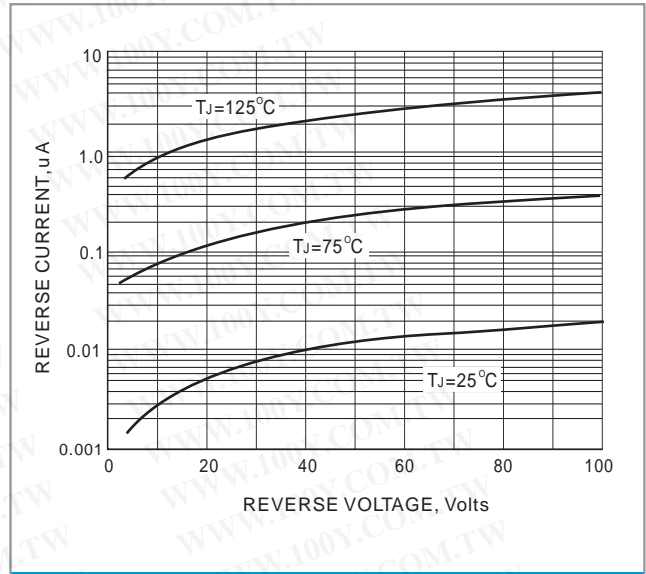


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

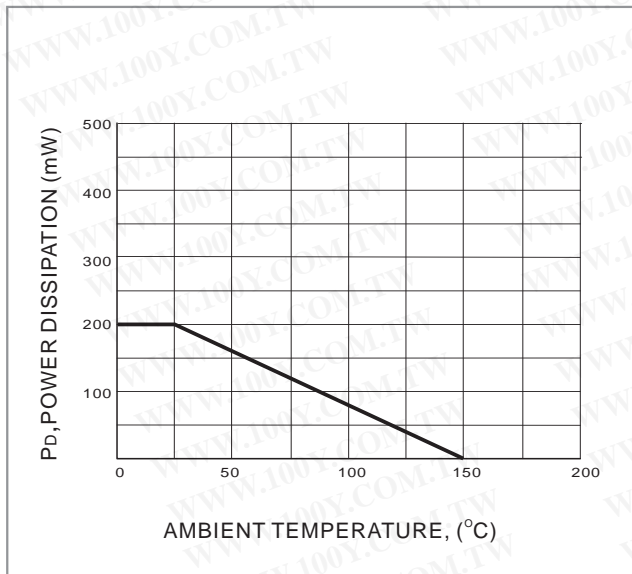


FIG. 3 POWER DERATING CURVE

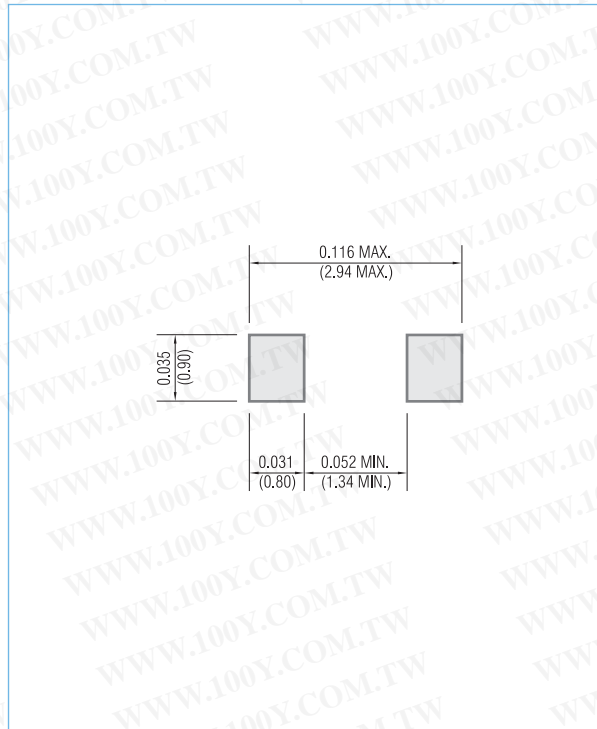


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MOUNTING PAD LAYOUT

SOD-323

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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