

Two Terminals SMD Switching Diodes

Features

- Fast Switching Speed
- High Conductance
- Suitable for Automatic Insertion
- Electrically Identical to Standard JEDEC
- RoHS compliant



SOD-323

Mechanical Data

Case:	SOD-323, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	0.008 gram



Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N4148WS	1N4448WS	BAV16WS	Unit	Conditions
V_{RM}	Reverse Voltage	75			V	
V_{RRM}	Peak Reverse Voltage	100			V	
V_{RMS}	RMS Voltage	50			V	
V_{DC}	Max. DC Blocking Voltage	75			V	
I_{F(AV)}	Average Forward Current	200			mA	
I_{FSM}	Peak Forward Surge Current	4			A	PW=1.0us
P_D	Power Dissipation	200			mW	above 25°C
V_F	Max Forward Voltage	0.715	-	-	V	IF=1mA
		-	0.72	-		IF=5mA
		0.855	-	0.855		IF=10mA
		1.0	-	-		IF=50mA
		-	1.0	-		IF=100mA
		1.25	-	-		IF=150mA

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1N4148WS/1N4448WS/BAV16WS

Symbol	Description	1N4148WS	1N4448WS	BAV16WS	Unit	Conditions
I_R	Max. Reverse Current	0.025	-	-	uA	VDC=20V
		2.5	2.5	1.0		VDC=75V
C_J	Junction Capacitance	1.5	4.0	2.0	pF	VR=0V, f=1MHz
T_{rr}	Reverse Recovery Time	4.0	4.0	6.0	ns	IF=10mA to IR=1mA, VR=6V,RL=100Ω
R_{θJA}	Thermal Resistance	640			°C/W	
T_J	Operating Junction Temperature Range	-55 to +150			°C	
T_{STG}	Storage Temperature Range	-55 to +150			°C	

Typical Characteristics Curves

Fig.1- Power Derating Curve

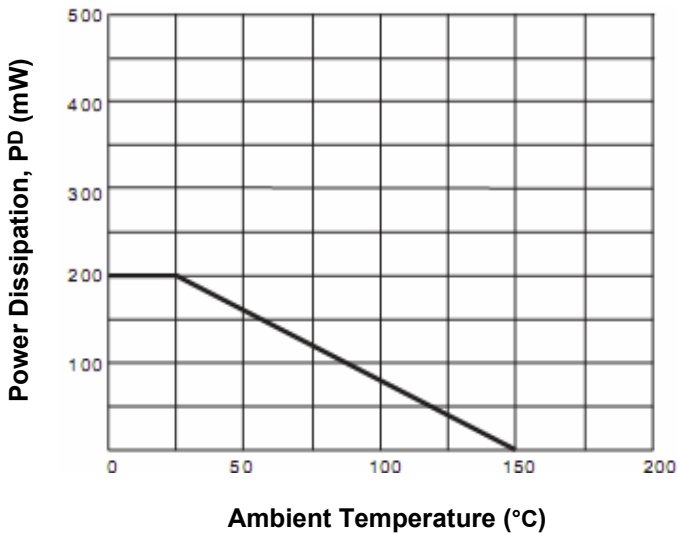
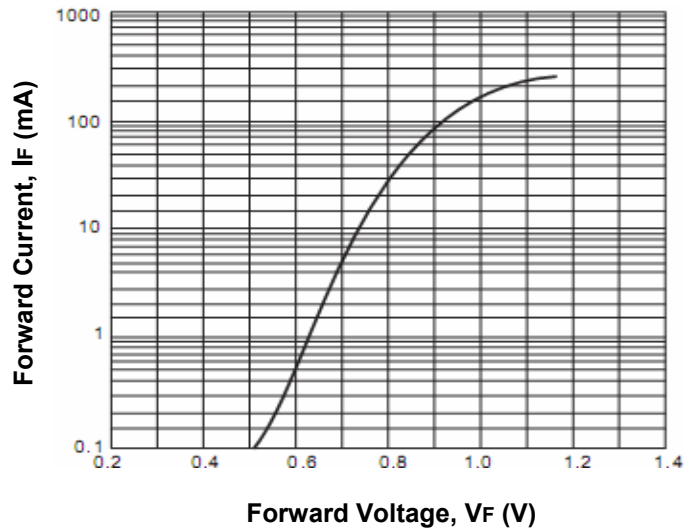


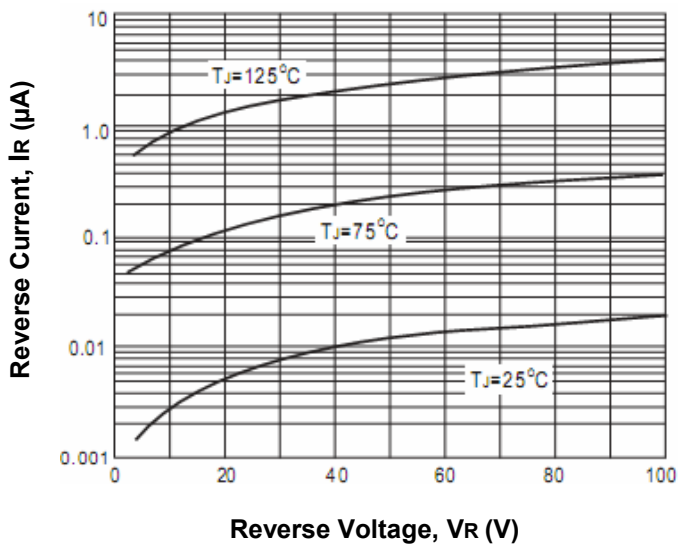
Fig.2- Typical Forward Characteristics



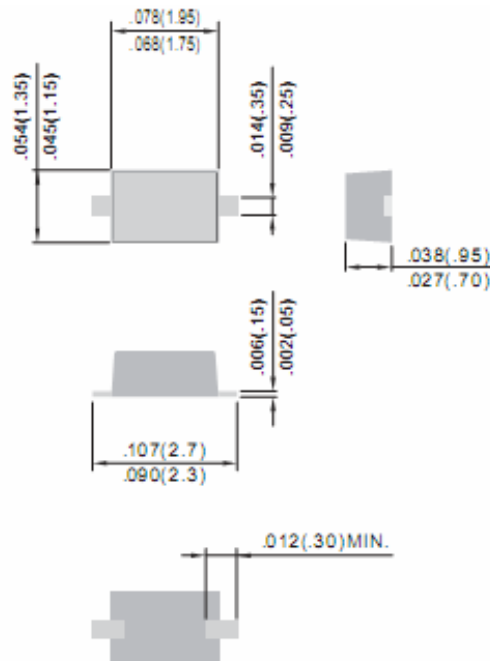
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Fig.3- Typical Reverse Characteristics



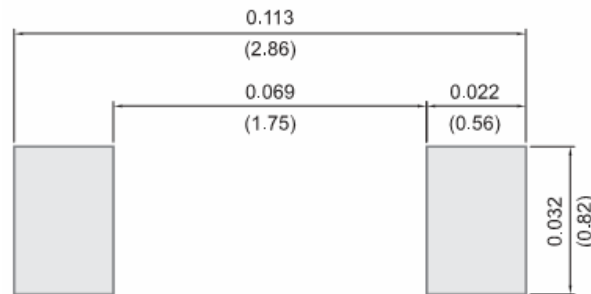
Dimensions in inch(mm)



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Mount Pad Layout



Packing Information:

Tape and Reel --- 5K per 7" plastic reel

How to Order

1N4X48/BAV16 WS -XX-XX

Packing Code
TR70: 7" Tape & Reel, RoHS
RG70: 7" Tape & Reel, RoHS and Halogen Free

Factory Location Code

WS: SOD-323

SMD Switching Diode

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1N4148WS/1N4448WS/BAV16WS

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