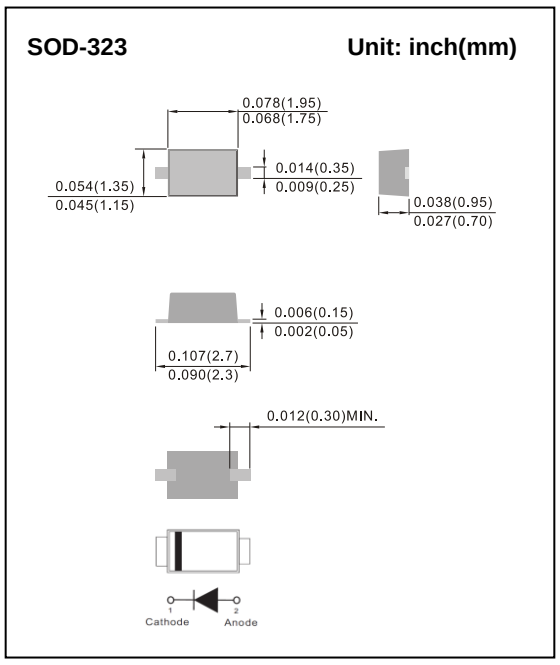
1N4148WS~BAV16WS

SURFACE MOUNT SWITCHING DIODES

Voltage 100 V **Power** 250mW



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-323, plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.0041 grams

Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	1N4148WS	1N4448WS	BAV16WS	UNIT
Marking code		-	A2	A3	A6	-
Reverse voltage		V_R	75			V
Maximum dc blocking voltage		V_{DC}	75			V
Peak reverse voltage		V_{RM}	100			V
RMS voltage		V_{RMS}	50			V
Maximum average forward current at T_A=25°C		$I_{F(AV)}$	200			mA
Peak forward surge current	0.001ms 10ms 1s	I_{FSM}	4 1.5 0.5			A
Power dissipation derate above 25°C		P_D	250			mW
Maximum forward voltage		V_F	0.715@1mA 0.855@10mA 1@50mA 1.25@150mA	0.72@5mA 1@100mA	0.715@1mA 0.855@10mA 1@50mA	V
Maximum dc reverse current at rated dc blocking voltage		I_R	0.025@20V 2.5@75V	2.5@75V	1@75V	μA
Junction capacitance Measured at 1MHz and applied V_R=0V		C_J	1.5	4	2	pF
Maximum reverse recovery time	(Note 3)	T_{RR}	4	4	6	ns
Typical thermal resistance	(Note 1) (Note 2) (Note 4) (Note 4)	$R_{\theta JA}$ $R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	500 650 280 400			°C/W
Operating and storage temperature range		T_J, T_{STG}	-55 to +150			°C

Note : 1. Mounted on a FR4, single-sided copper, with 50 x 15mm PCB.

2. Mounted on a FR4, single-sided copper, with mini pad.

3. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω.

4. Mounted on a FR-4 PCB, single-sided copper, mini pad, with 100cm^2 copper pad area.

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TYPICAL CHARACTERISTIC CURVES

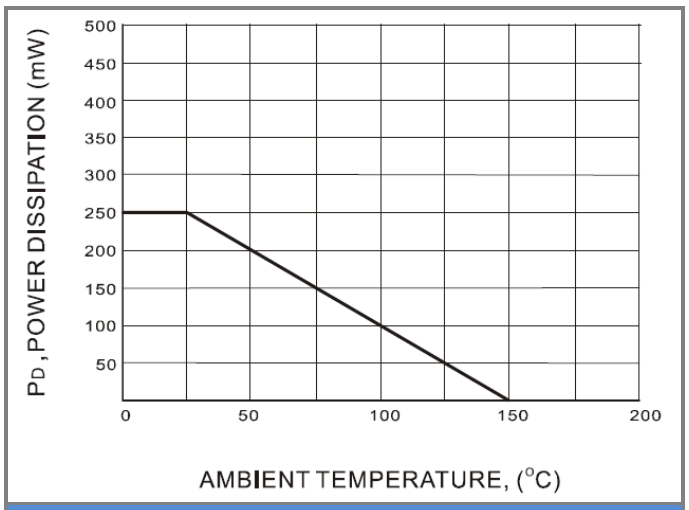

Fig.1 Power Derating Curve

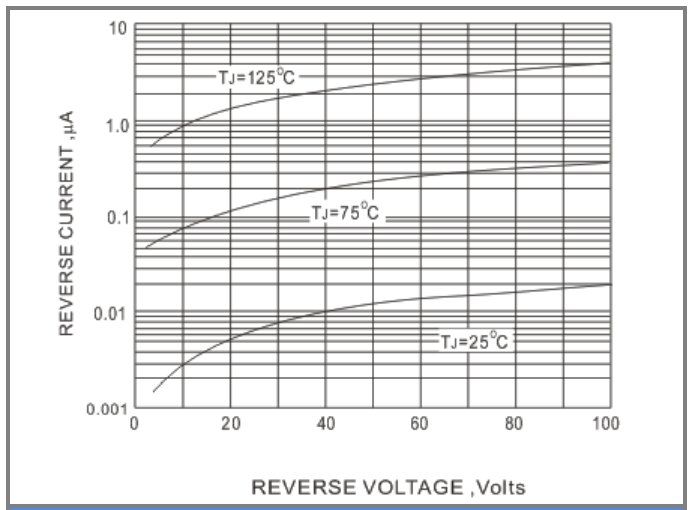

Fig.2 Typical Reverse Characteristics

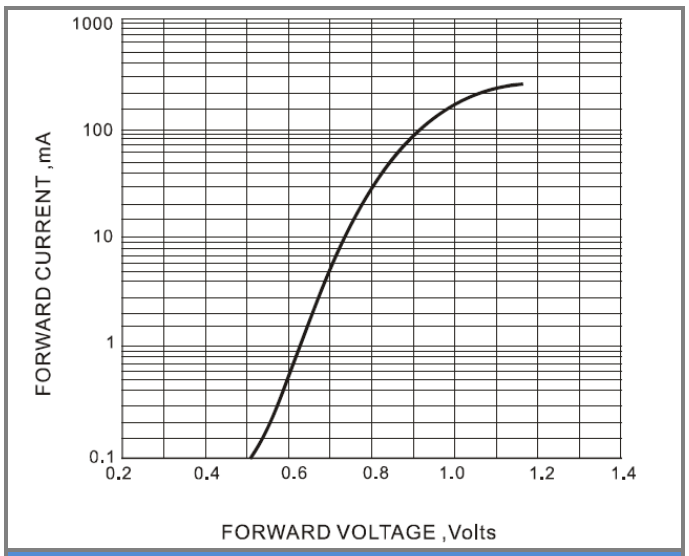

Fig.3 Typical forward Characteristics

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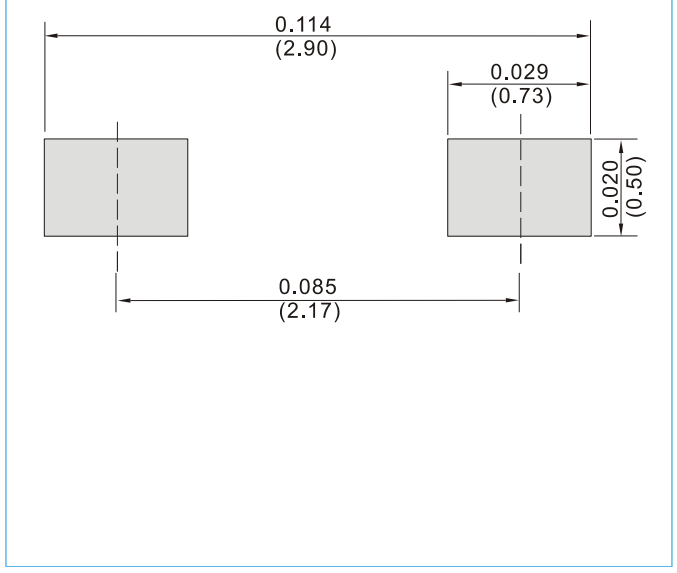
Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
1N4148WS_R1_00001	SOD-323	5K pcs / 7” reel	A2	Halogen free
1N4148WS_R2_00001	SOD-323	12K pcs / 13” reel	A2	Halogen free

Mounting Pad Layout

SOD-323 Unit : inch(mm)



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