

Surface Mount Switching Diodes

Voltage 100 V Power 200 mW

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

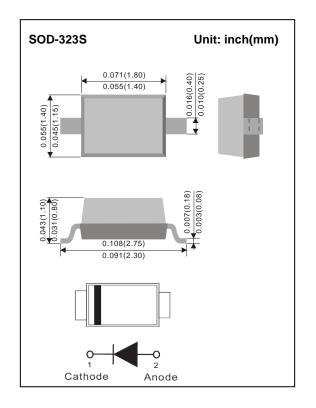
Mechanical Data

• Case : SOD-323S, plastic

• Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

• Approx. Weight: 0.0042 grams



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

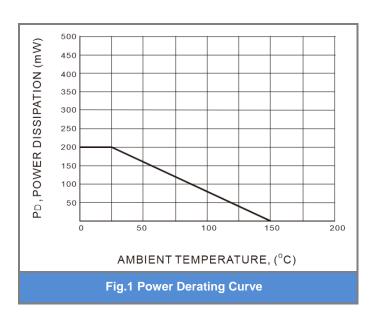
PARAMETER		SYMBOL	VALUE	UNIT
Reverse voltage		VR	100	V
Maximum DC blocking voltage		VDC	100	V
Peak reverse voltage		Vrm	100	V
RMS voltage		VRMS	50	V
Maximum average forward current at T _A =25°C		I F(AV)	200	mA
0.001ms Peak forward surge current 10ms 1s		İfsm	4 1.5 0.5	Α
Power dissipation derate above 25°C		PD	200	mW
Maximum forward voltage		Vf	0.715@1mA 0.855@10mA 1@50mA 1.25@150mA	V
Maximum DC reverse current at rated DC blocking voltage		lR	0.025@20V 2.5@75V	μА
Junction capacitance Measured at 1MHz and applied V _R =0V		Сì	1.5	pF
Maximum reverse recovery time	(Note 2)	Trr	4	ns
Typical thermal resistance	(Note 1)	RөJA	650	°C/W
Operating and storage temperature range		TJ, Tsтg	-55 to +150	°C

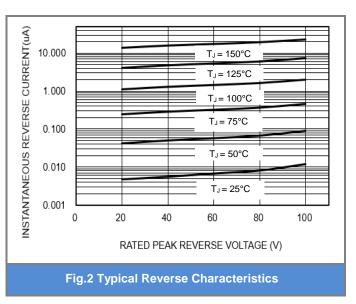
NOTES: 1. Mounted on a FR4, single-sided copper, with mini pad.

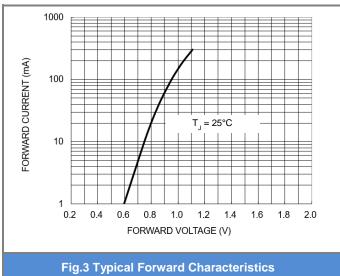
2. From IF=10mA to IR=1mA, VR=6Volts, R_L =100 Ω .



TYPICAL CHARACTERISTIC CURVES





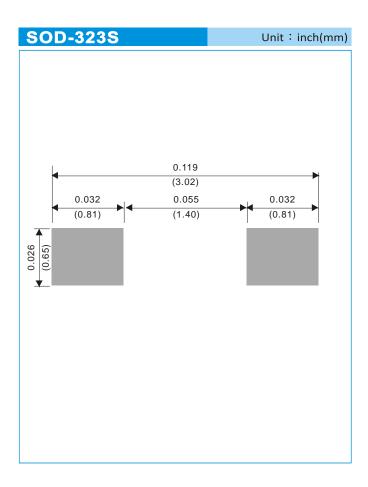




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
1N4148WSG	SOD-323S	3K pcs / 7" reel	A2

Mounting Pad Layout



October 12,2023 1N4148WSG-REV.02 Page 3



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October 12,2023 1N4148WSG-REV.02 Page 4