

SURFACE MOUNT FAST SWITCHING DIODE

Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application
- Plastic Material UL Recognition Flammability Classification 94V-O

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band



SOD-123					
Dim	Min	Max			
Α	3.6	3.9			
В	2.5	2.8			
С	1.4	1.8			
D	0.5	0.7			
Е	—	0.2			
G	0.4	—			
Н	0.95	1.35			
J	_	0.12			
All Dimensions in mm					

Maximum Ratings $@T_A=25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	Vrm	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current (Note 1)	Iгм	300	mA
Average Rectified Output Current (Note 1)	lo	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	А
Power Dissipation (Note 1)	Pd	410	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	315	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

$\label{eq:transformation} Electrical Characteristics @T_{A} = 25^{\circ}C \ \text{unless otherwise specified}$

Characteristic		Symbol	Value	Unit
Forward Voltage Drop	@ IF = 10mA	Vfm	1.0	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	Iгм	25 5.0	nA µA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	2.0	pF
Reverse Recovery Time (Note 2)		trr	4.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured with IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 Ω .





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