

1N4148W

1N4148W Fast Switching Diode

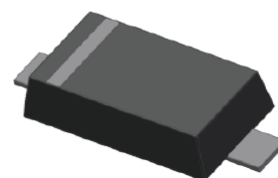
General description

Surface Mount Silicon Switching Diode

FEATURES

- Fast Switching Device (TRR <4.0 nS)
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g

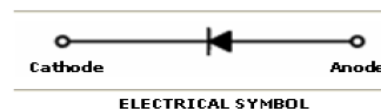
Green Product



SOD-123 Flat Lead

Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	400	mW
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _J	Operating Junction Temperature	+150	°C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
I _O	Continuous Forward Current	150	mA
I _{FSM}	Peak Forward Surge Current (Pulse Width=1us)	2	A



DEVICE MARKING CODE:

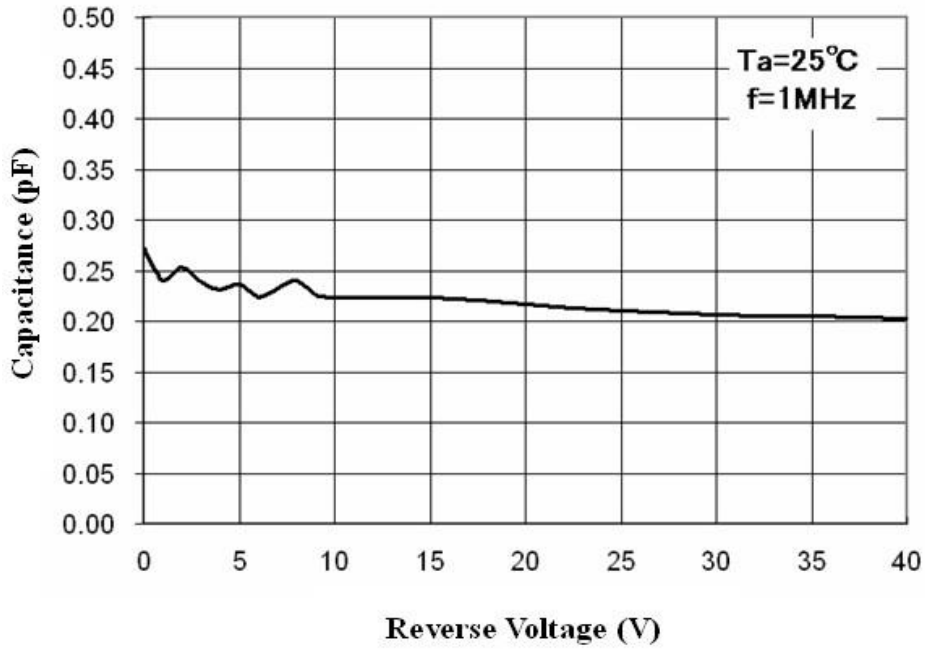
Device Type	Device Marking
1N4148W	D1 or T4

Electrical Characteristics TA = 25°C unless otherwise noted

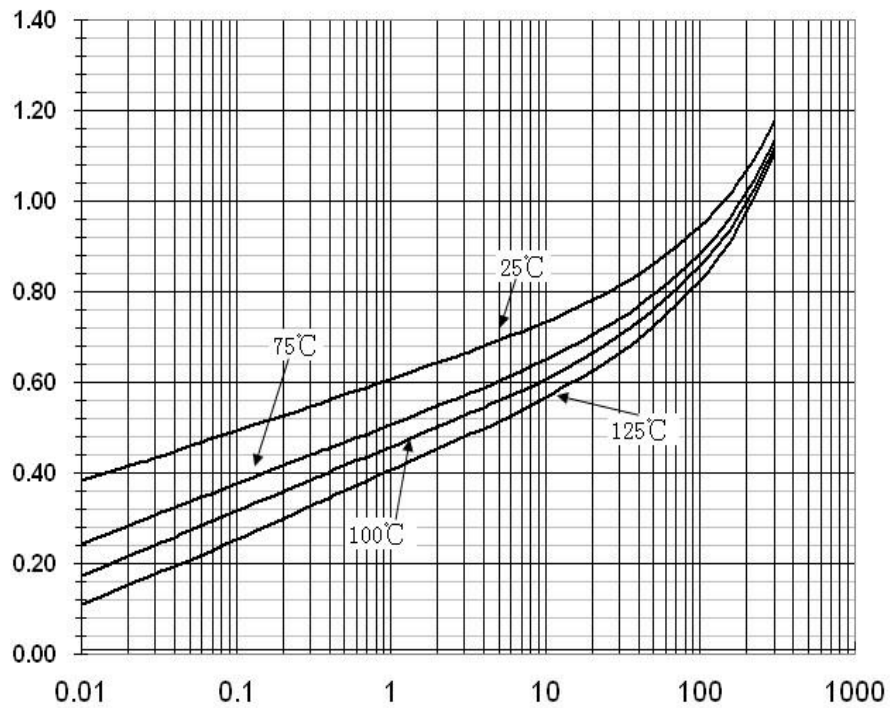
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B _V	Breakdown Voltage	I _R =100μA	100		Volts
		I _R =5μA	75		
I _R	Reverse Leakage Current	V _R =20V		25	nA
		V _R =75V		5	μA
V _F	Forward Voltage	I _F =5mA	0.62	0.72	Volts
		I _F =10mA		1.0	
		I _F =100mA		1.0	
T _{RR}	Reverse Recovery Time	I _F =10mA I _R =60mA R _L =100Ω I _{RR} =1mA		4	nS
C	Capacitance	V _R =0V, f=1M _{HZ}		4	pF

Typical Performance Characteristics

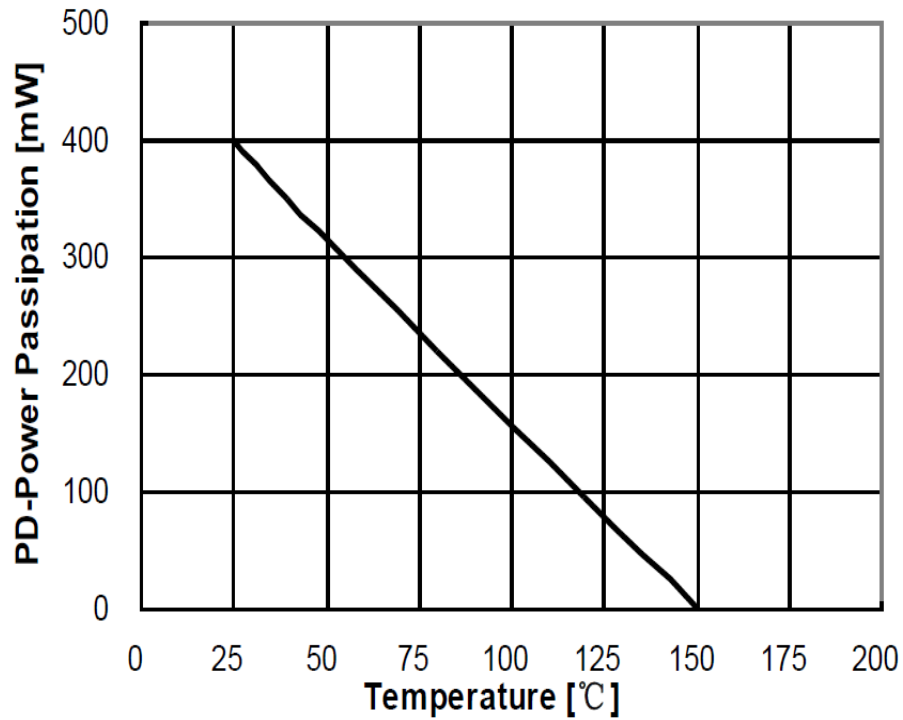
Total Capacitance



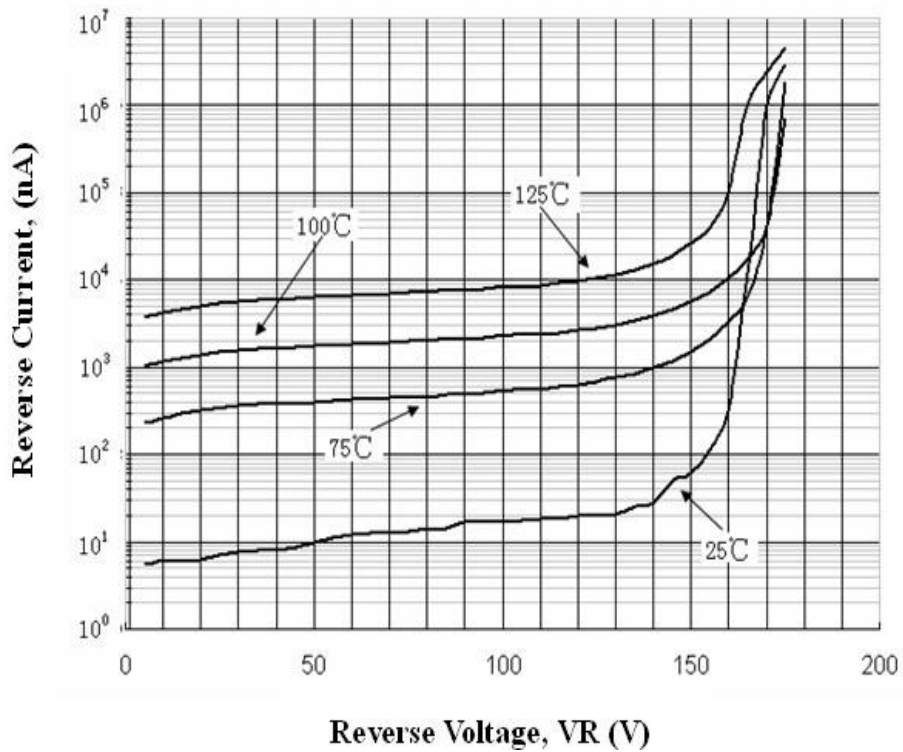
Forward Voltage vs Ambient Temperature



Power Derating Curve

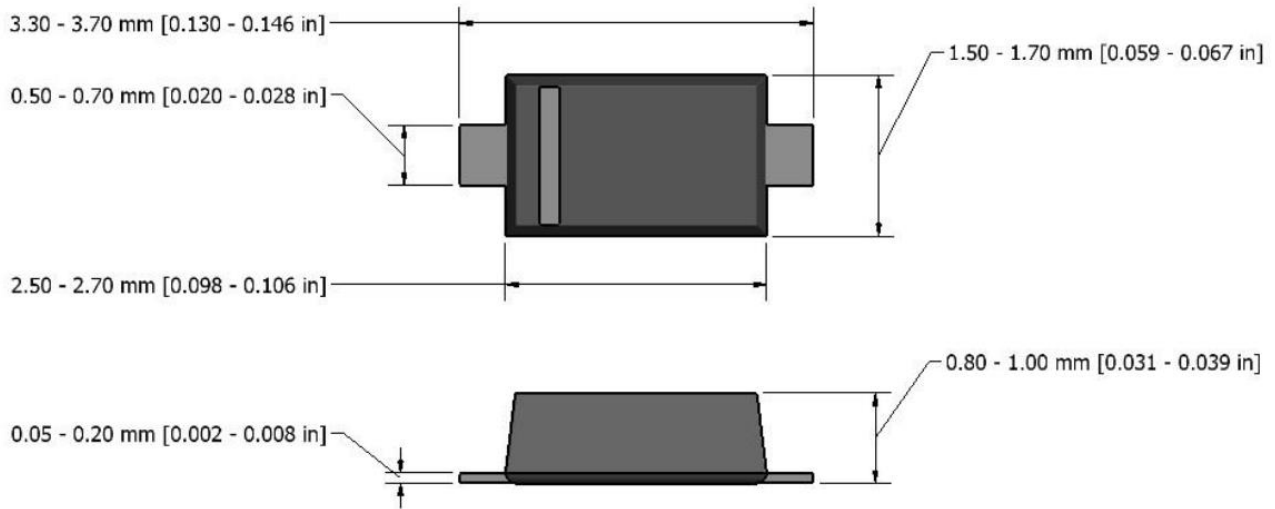


Reverse Current vs Reverse Voltage Reverse



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Flat Lead SOD-123 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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