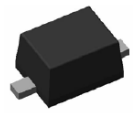
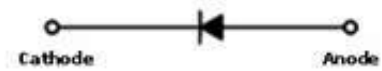
200mW SOD-323 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
Fast Switching Diode

SOD-323



ELECTRICAL SYMBOL



Specification Features:

- Fast Switching Device (**TRR** <4.0 nS)
- General Purpose Diodes
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

Device Type	Device Marking
1N4148WS	T4
1N4448WS	T5
1N914BWS	T6

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	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

These ratings are limiting values above which the serviceability of the diode may be impaired.

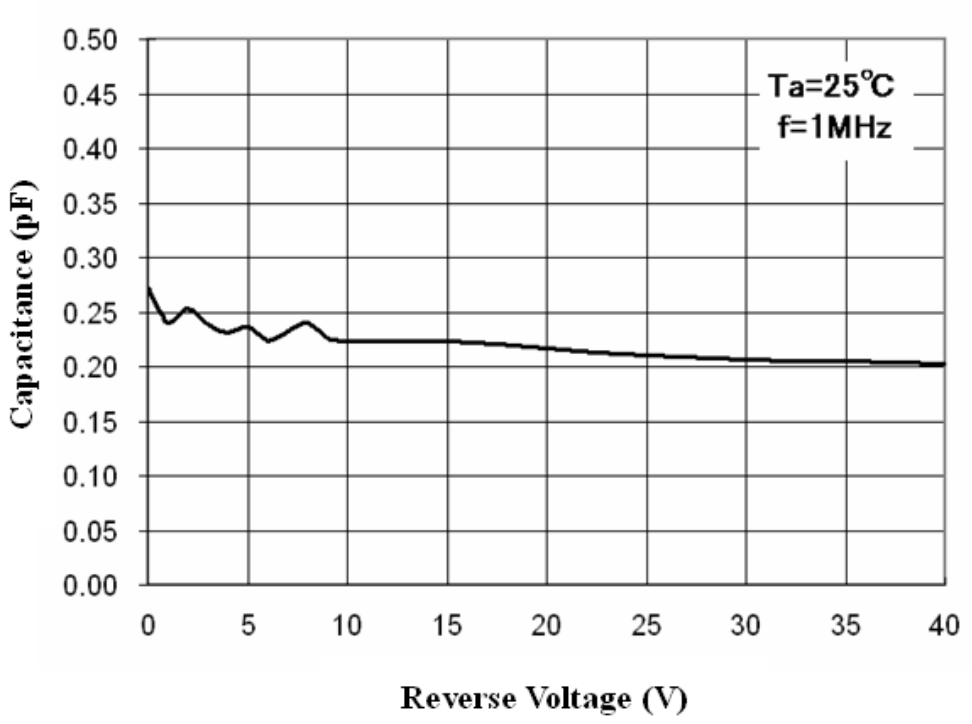
Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter		Test Condition	Limits Min	Limits Max	Unit
B_V	Breakdown Voltage		I_R=100μA I_R=5μA	100 75		Volts
I_R	Reverse Leakage Current		V_R=20V V_R=75V		25 5	nA μA
V_F	Forward Voltage	1N4448WS, 1N914BWS 1N4148WS 1N4448WS, 1N914BWS	I_F=5mA I_F=10mA I_F=100mA	 0.62 	0.72 1.0 1.0	Volts
T_{RR}	Reverse Recovery Time		I_F=10mA I_R=60mA R_L=100 Ω I_{RR}=1mA		4	nS
C	Capacitance		V_R=0V, f=1M_{HZ}		4	pF

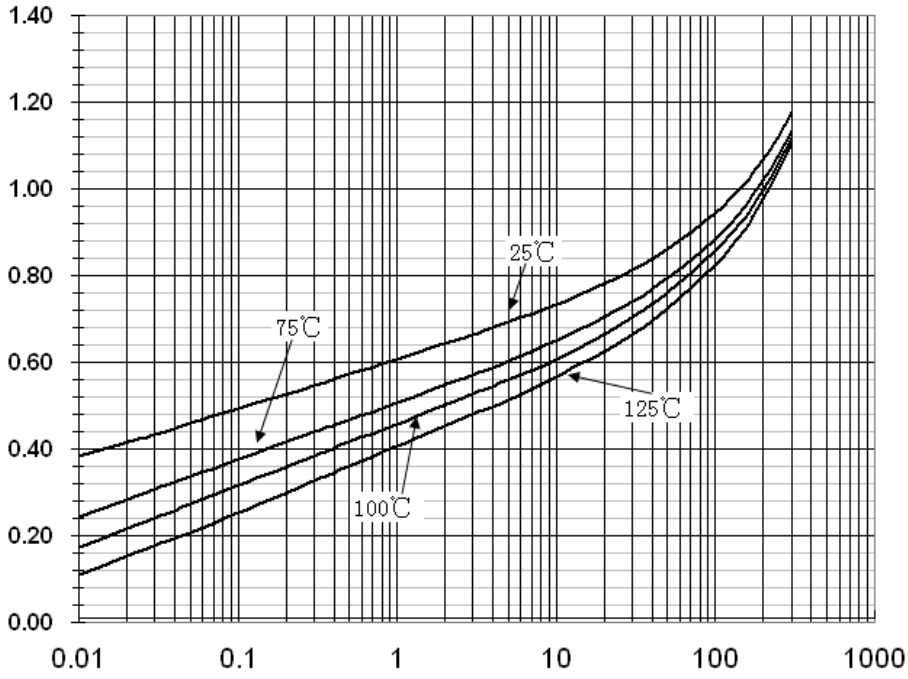
Typical Performance Characteristics

Total Capacitance

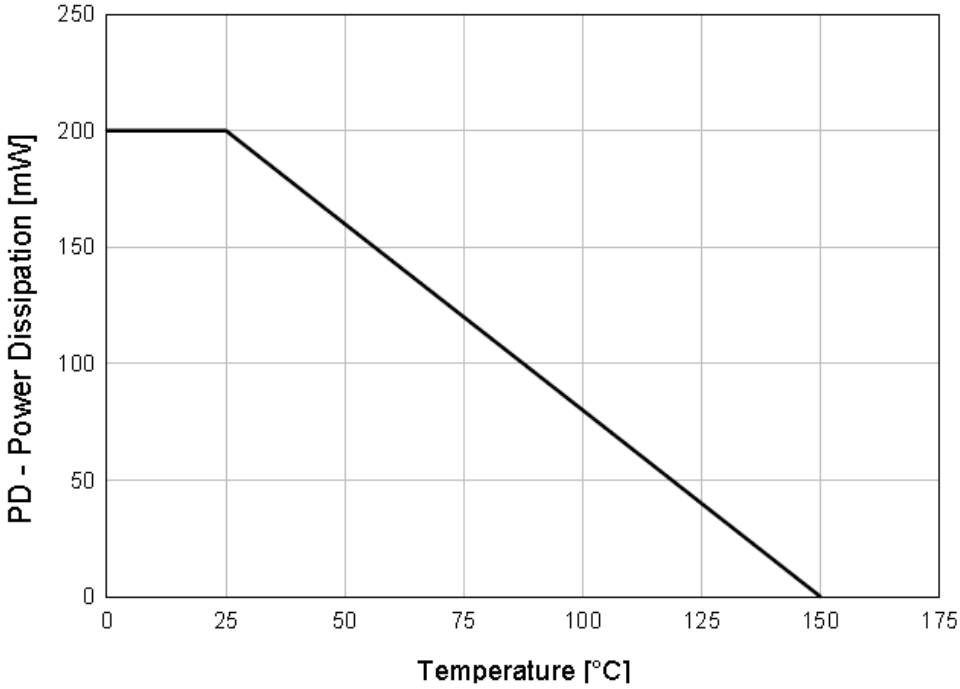


Typical Performance Characteristics

Forward Voltage vs Ambient Temperature

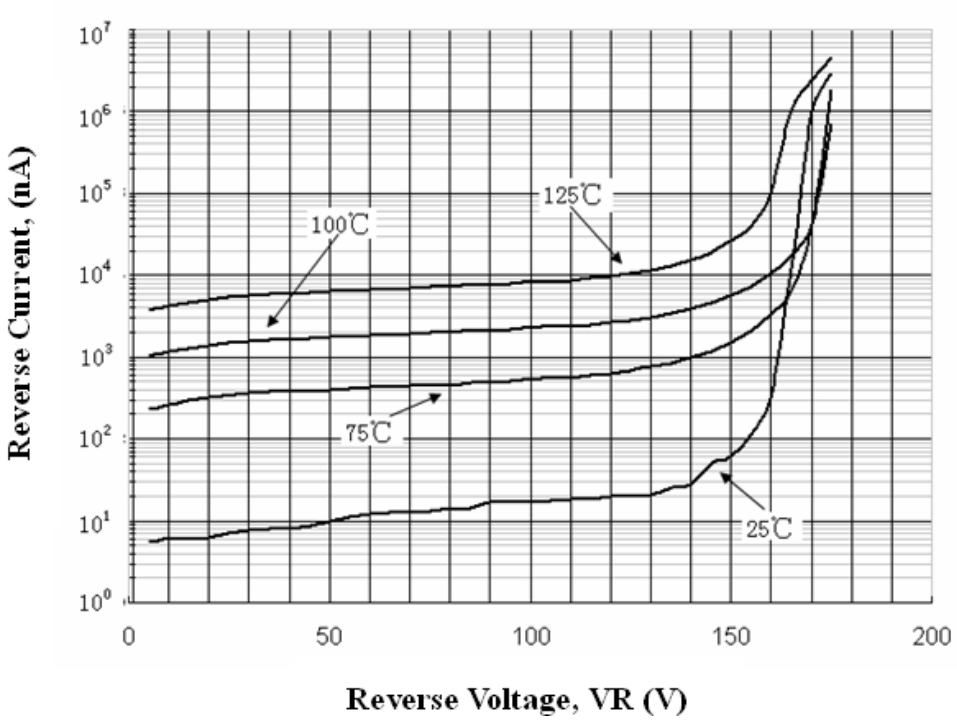


Power Derating Curve

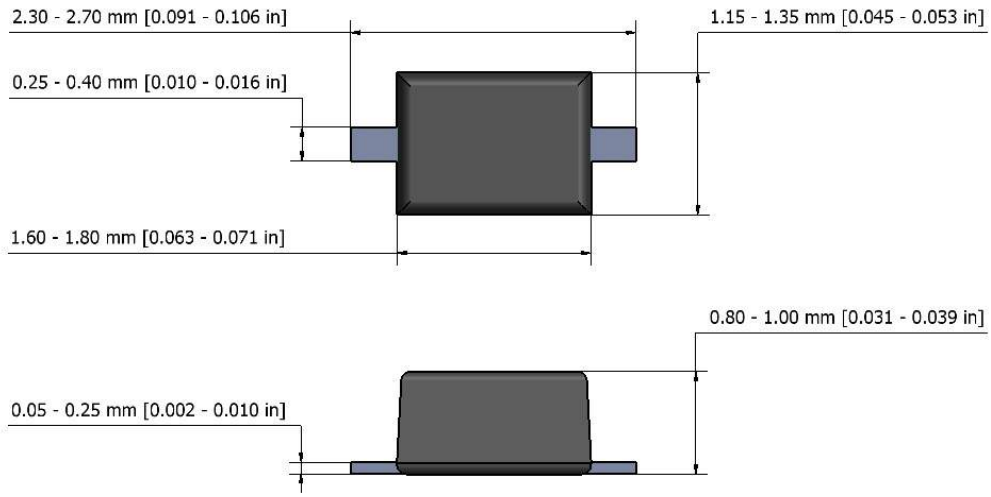


Typical Performance Characteristics

Reverse Current vs Reverse VoltageReverse



SOD-323 Package Outline



NOTES:
1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.