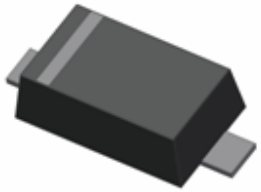
200mW SOD-323 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
High Speed Switching Diode

Green Product



SOD-323 Flat Lead

ELECTRICAL SYMBOL

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_R	Reverse Voltage	80	V
V_{RM}	Repetitive Peak Reverse Voltage	90	V
I_{FM}	Forward Current	250	mA
I_O	Continuous Forward Current	150	mA
I_{FRM}	Repetitive Peak Forward Current	500	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.

Specification Features:

- High Speed Switching Device (T_{RR} <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:

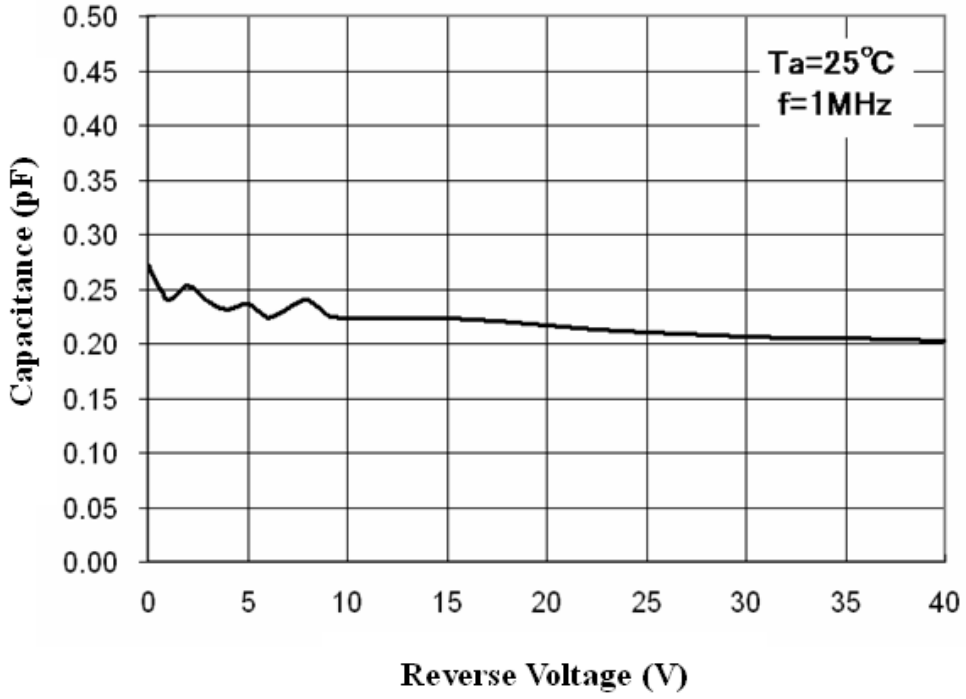
Device Type	Device Marking
1SS355	S4

Electrical Characteristics T_A = 25°C unless otherwise noted

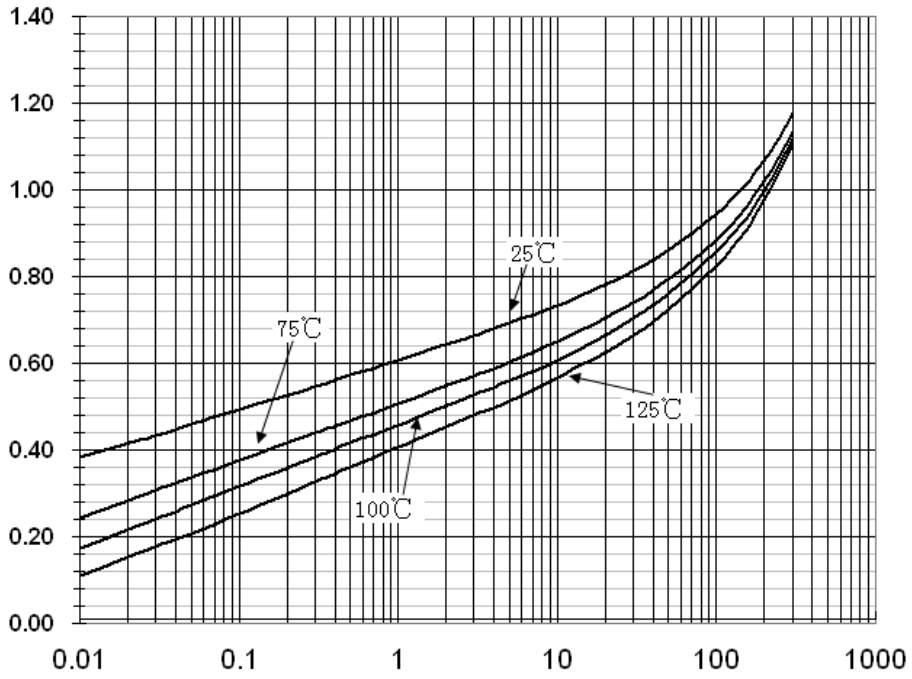
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	I_R=100μA	80		Volts
I_R	Reverse Leakage Current	V_R=80V		100	nA
V_F	Forward Voltage	I_F=100mA		1.2	Volts
T_{RR}	Reverse Recovery Time	I_F=10mA V_R=6V R_L=100Ω		4	nS
C	Capacitance	V_R=0.5V, f=1M_{HZ}		4	pF

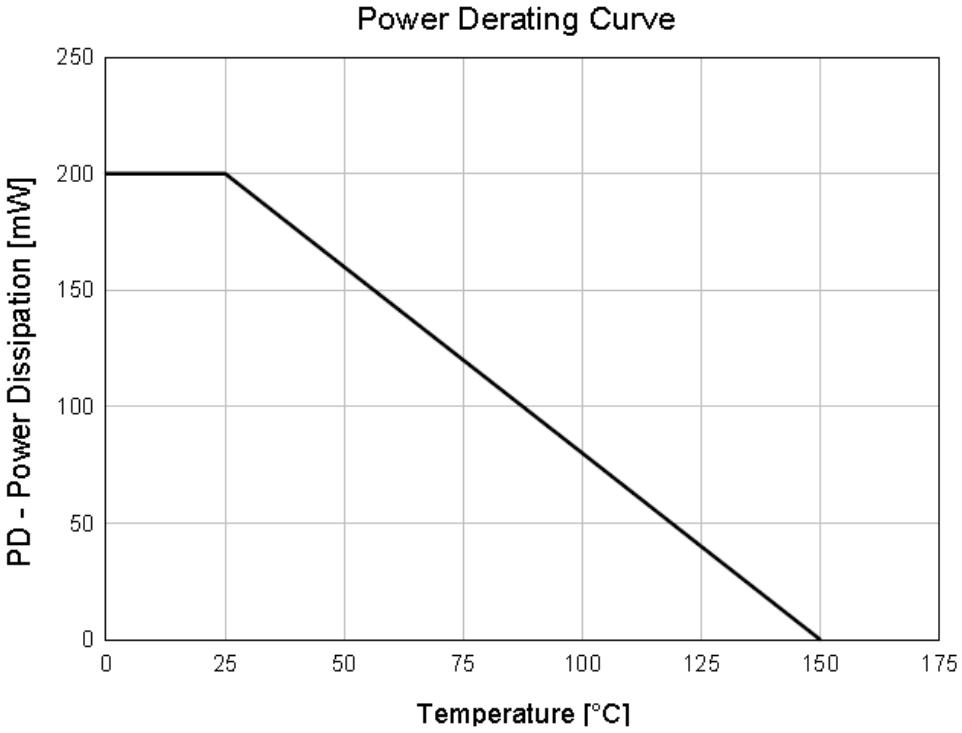
Typical Performance Characteristics

Total Capacitance

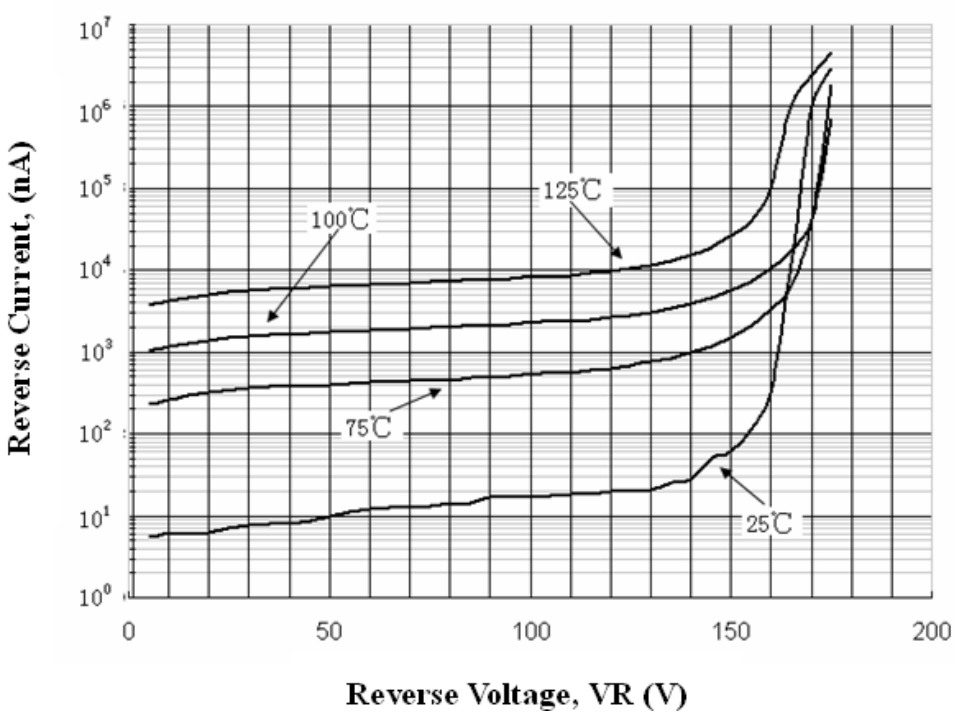


Forward Voltage vs Ambient Temperature

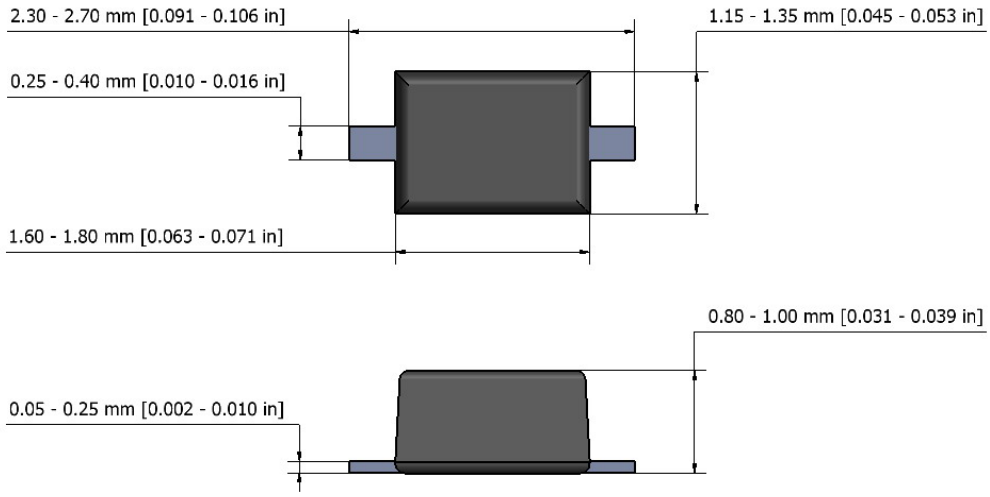




Reverse Current vs Reverse VoltageReverse



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.

NOTICE

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