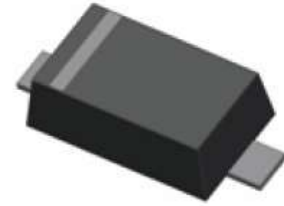


200mW SOD-323 SURFACE MOUNT Small Outline Flat Lead Plastic Package High Speed Switching Diode

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

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
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

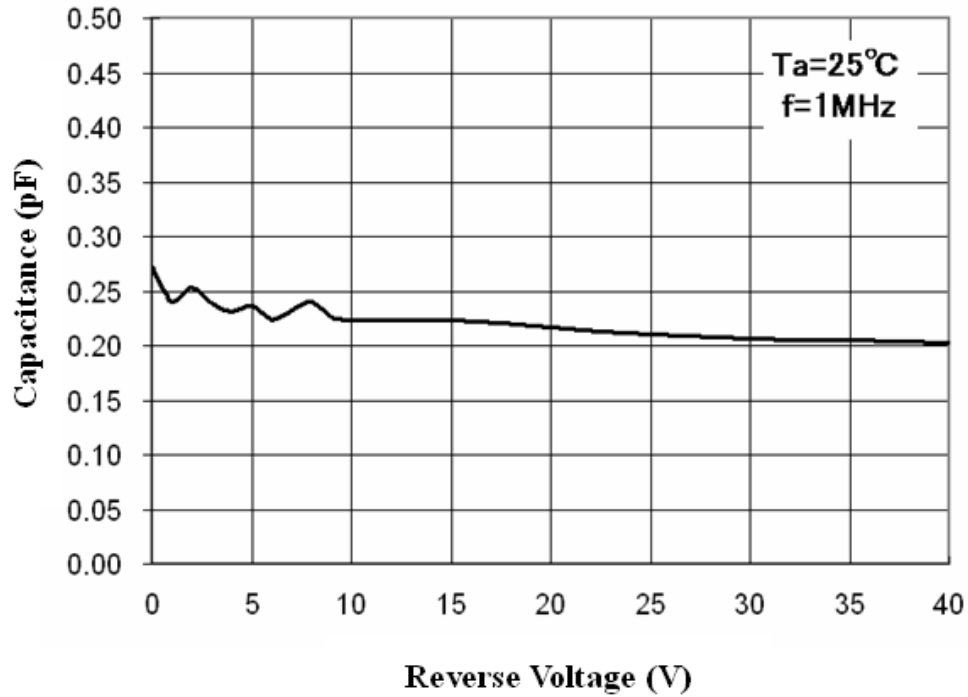
These ratings are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

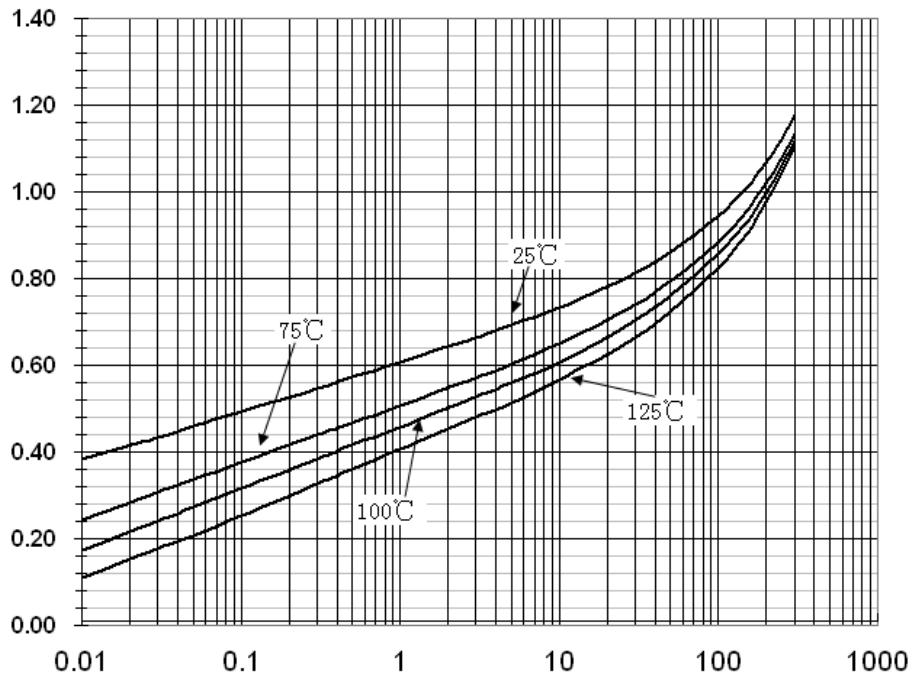
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	80		Volts
I_R	Reverse Leakage Current	$V_R=80\text{V}$		100	nA
V_F	Forward Voltage	$I_F=100\text{mA}$		1.2	Volts
T_{RR}	Reverse Recovery Time	$I_F=10\text{mA}$ $V_R=6\text{V}$ $R_L=100\Omega$		4	nS
C	Capacitance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

Typical Performance Characteristics

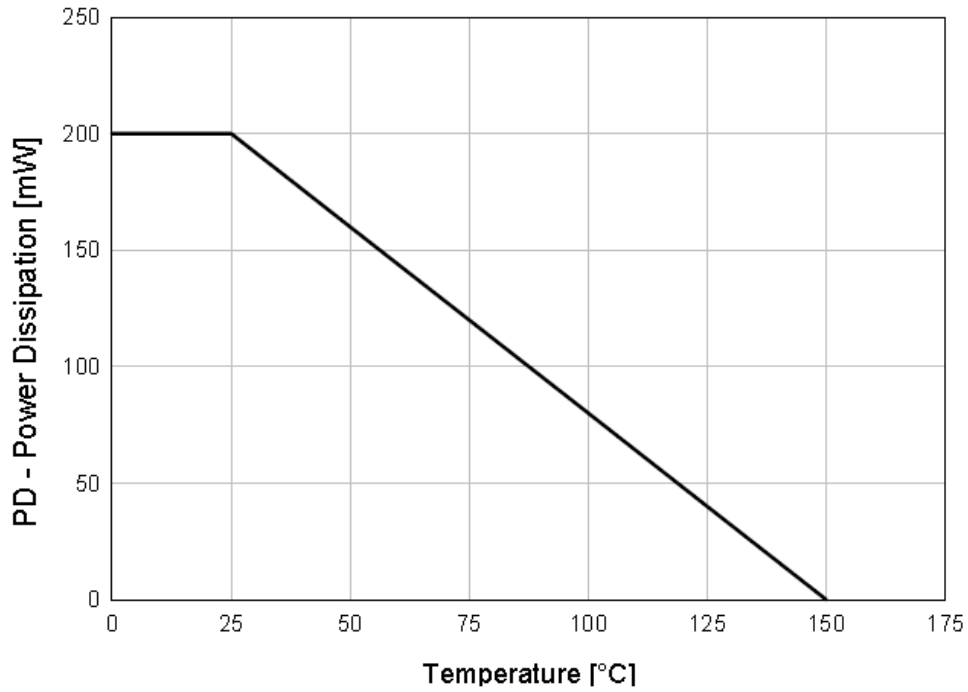
Total Capacitance



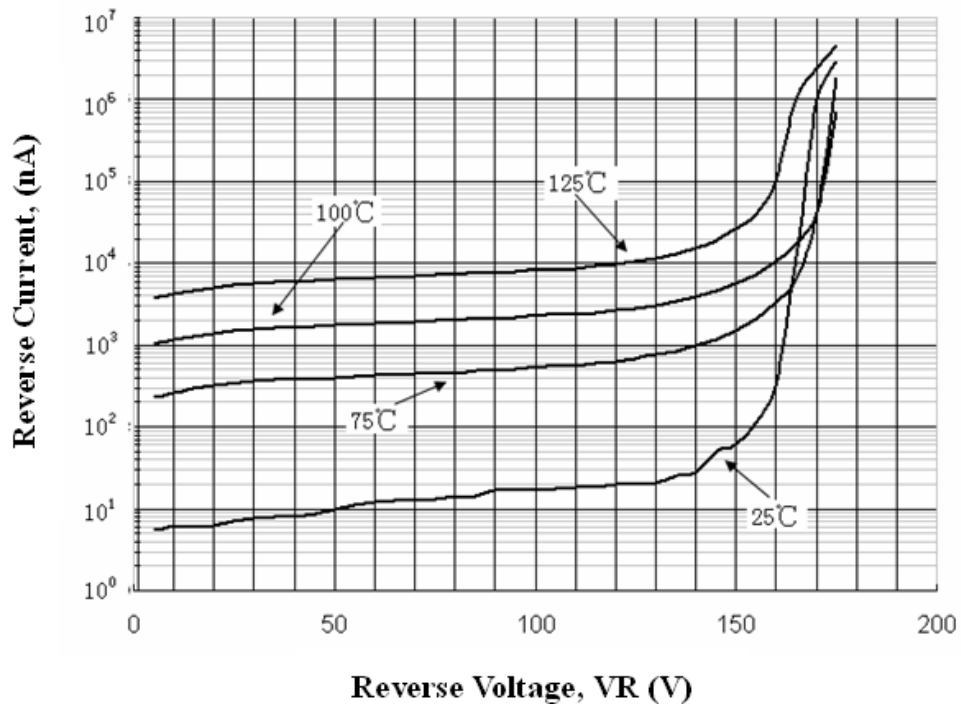
Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage



SOD-323 Package Outline

