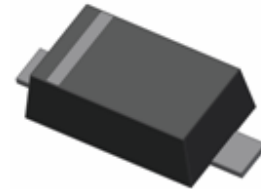


200mW SOD-323 SURFACE MOUNT

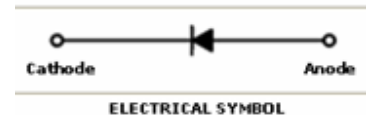
Small Outline Flat Lead Plastic Package

High Speed Switching Diode

Green Product



SOD-323 Flat Lead



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.

Specification Features:

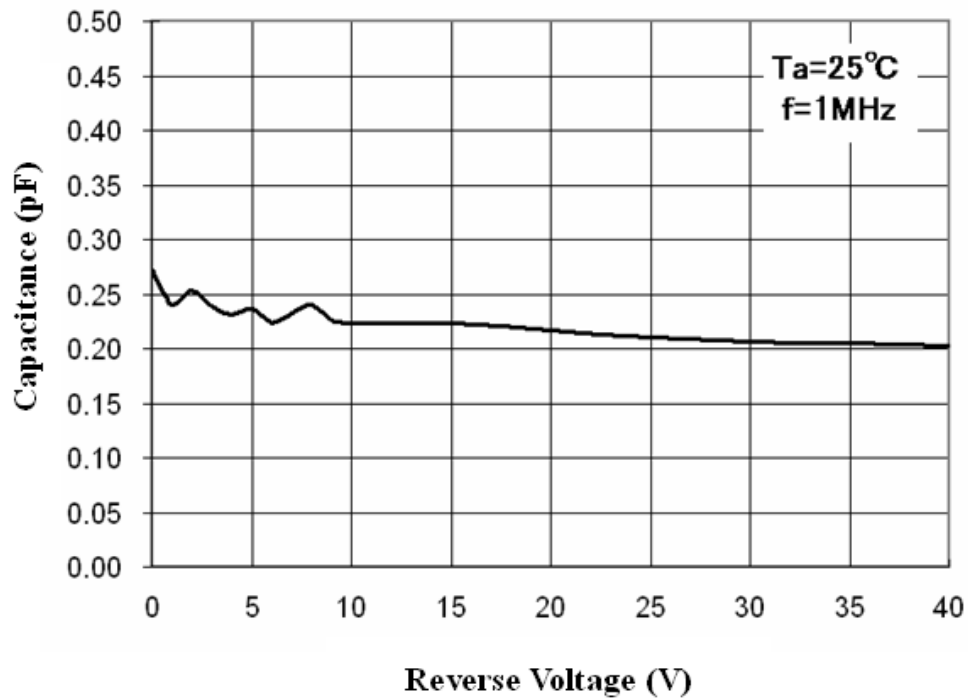
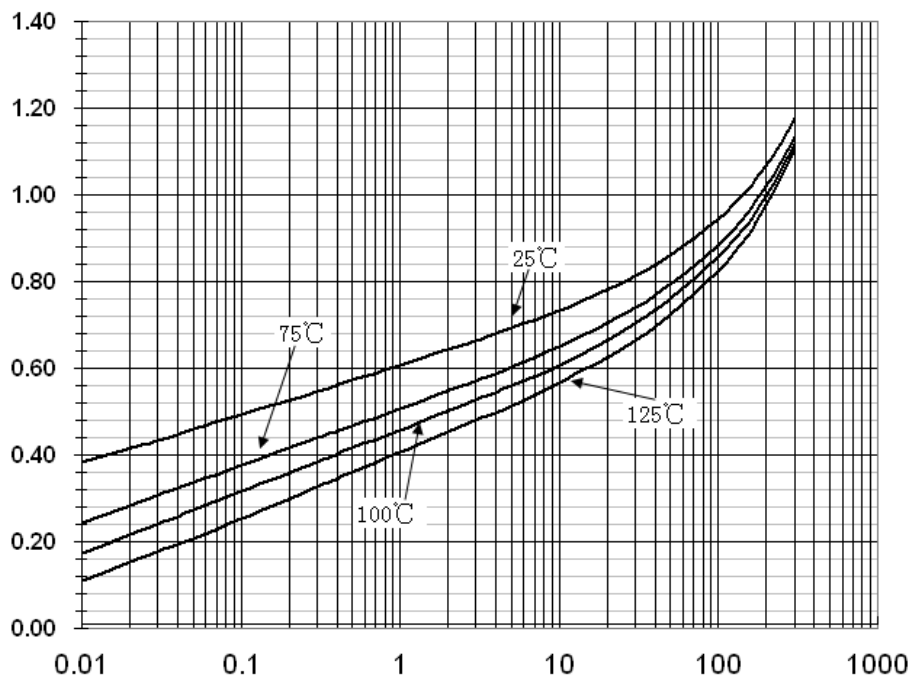
- High Speed Switching Device ($T_{RR} < 4.0 \text{ nS}$)
- General Purpose Diodes
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

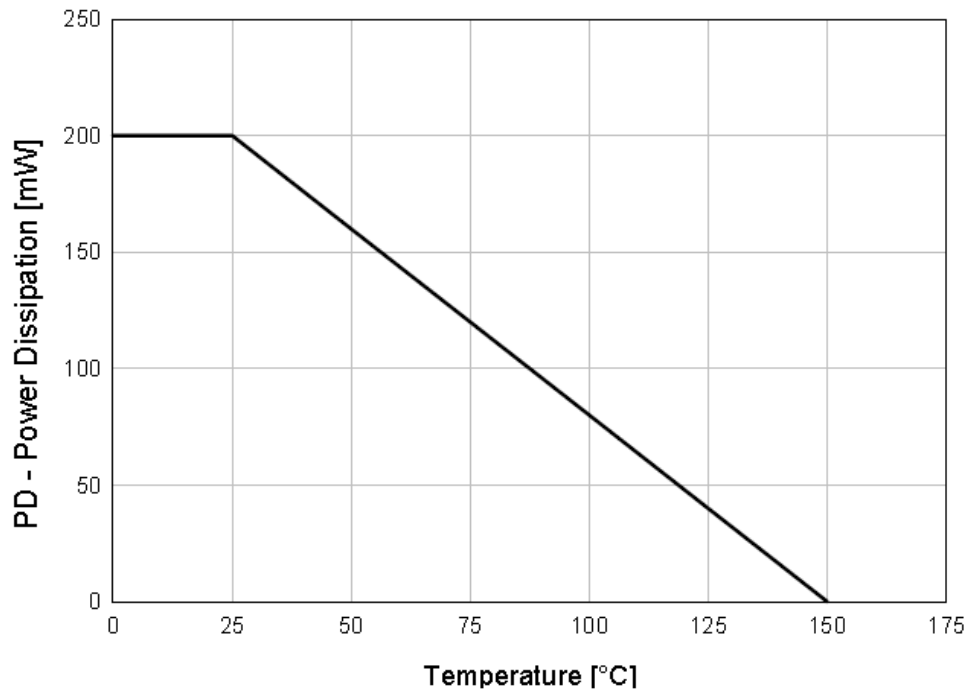
Device Type	Device Marking
1SS355	S4

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

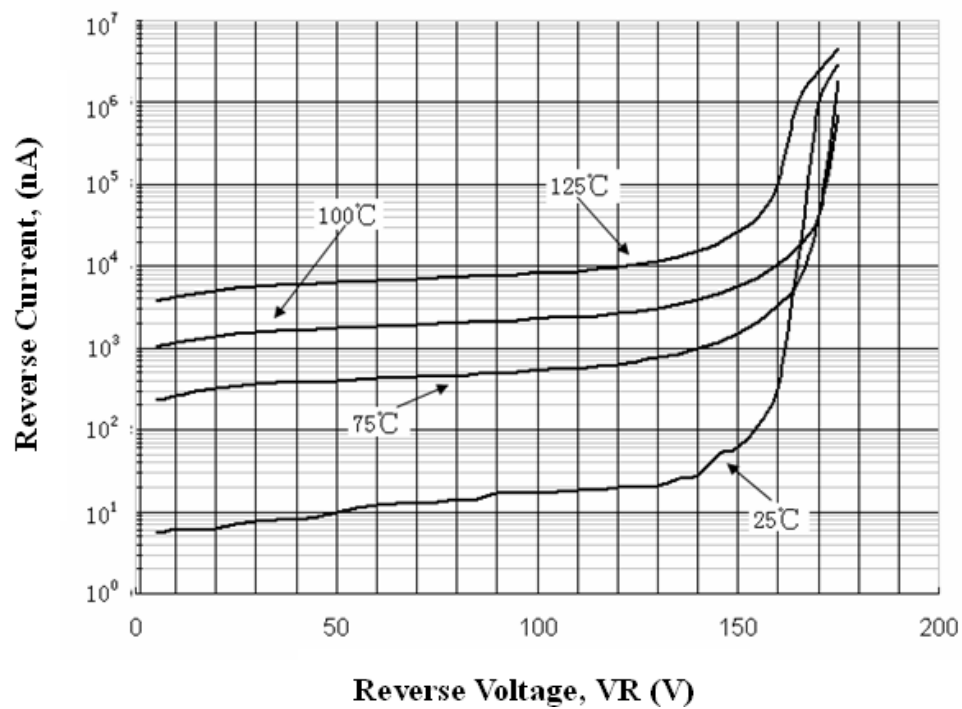
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R = 100 \mu\text{A}$	80		Volts
I_R	Reverse Leakage Current	$V_R = 80\text{V}$		100	nA
V_F	Forward Voltage	$I_F = 100\text{mA}$		1.2	Volts
T_{RR}	Reverse Recovery Time	$I_F = 10\text{mA}$ $V_R = 6\text{V}$ $R_L = 100\Omega$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


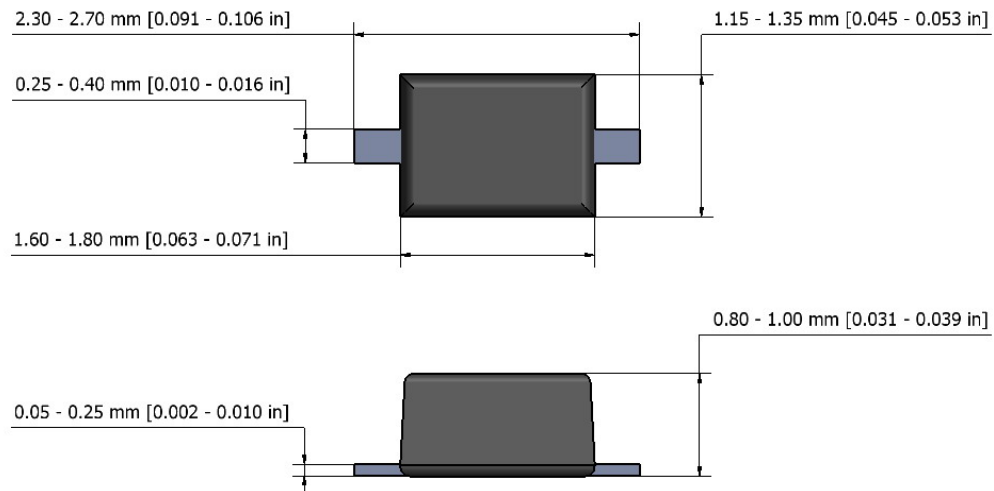
Power Derating Curve



Reverse Current vs Reverse Voltage



SOD-323 Package Outline

**NOTES:**

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

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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