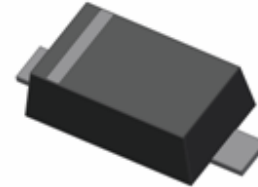


200mW SOD-323 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
High Speed Switching Diode

Green Product



SOD-323 Flat Lead



ELECTRICAL SYMBOL

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

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

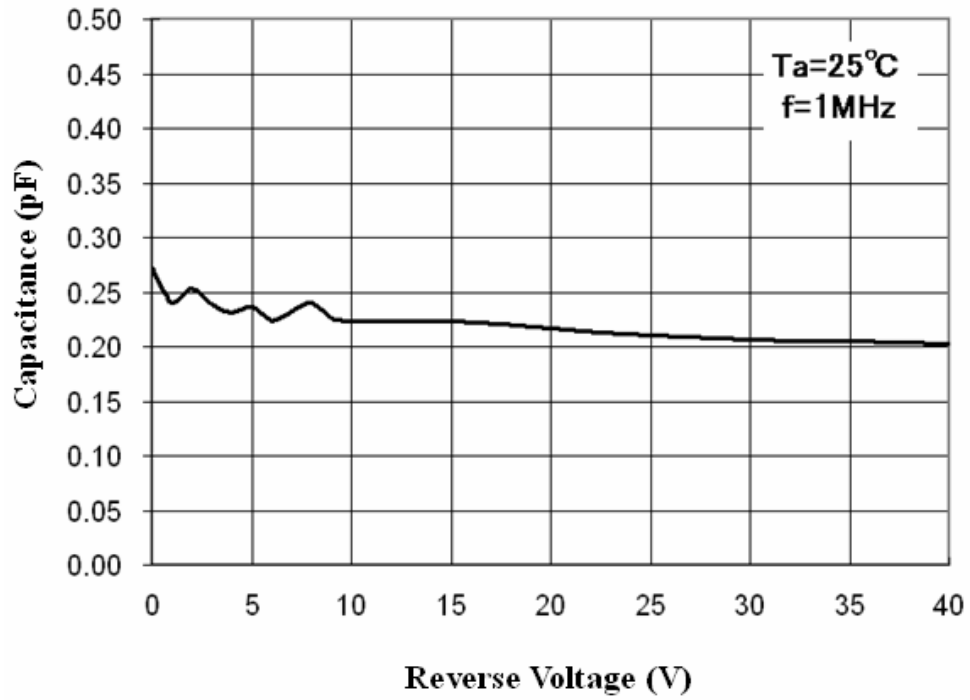
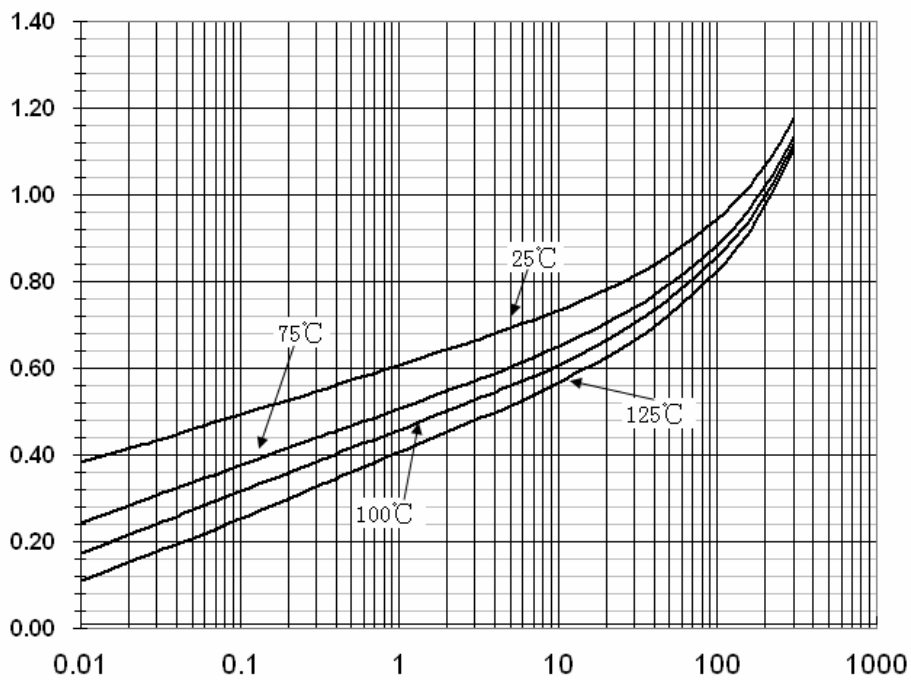
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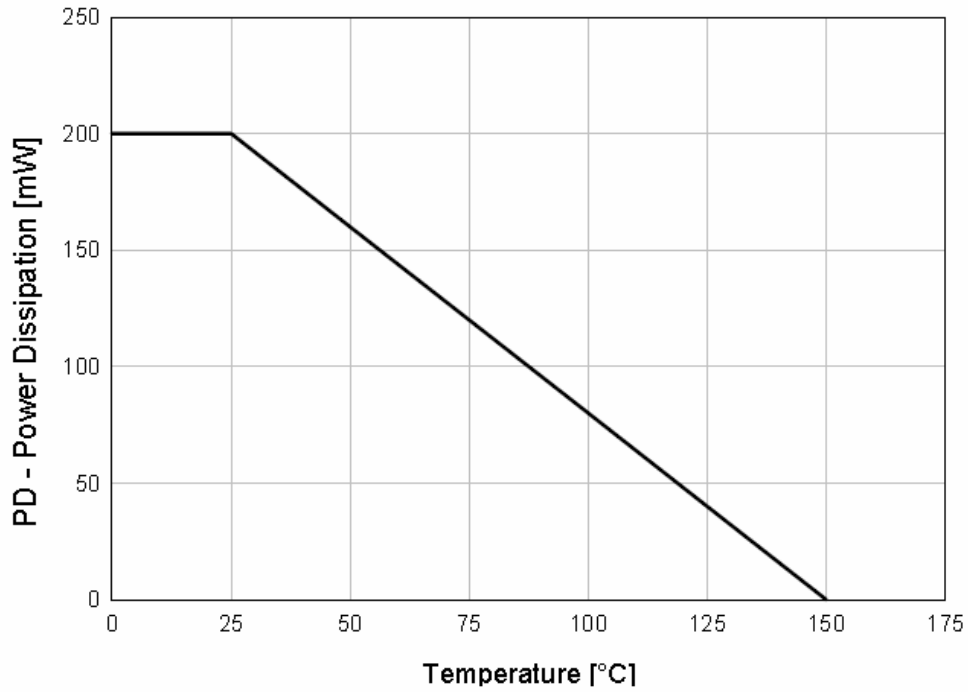
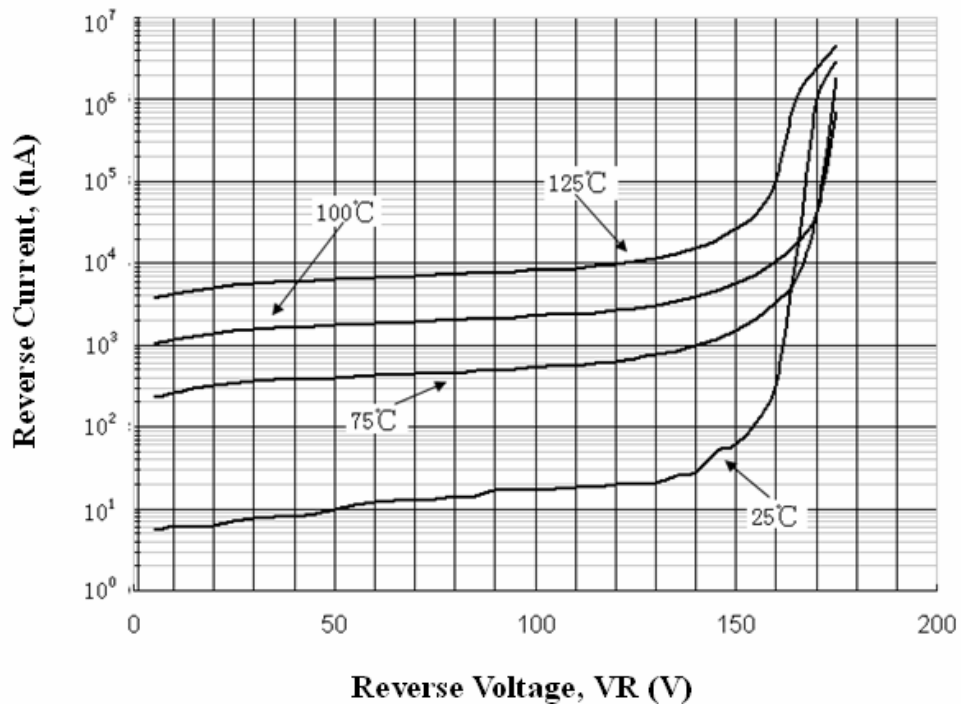
Device Type	Device Marking
1SS355	S4

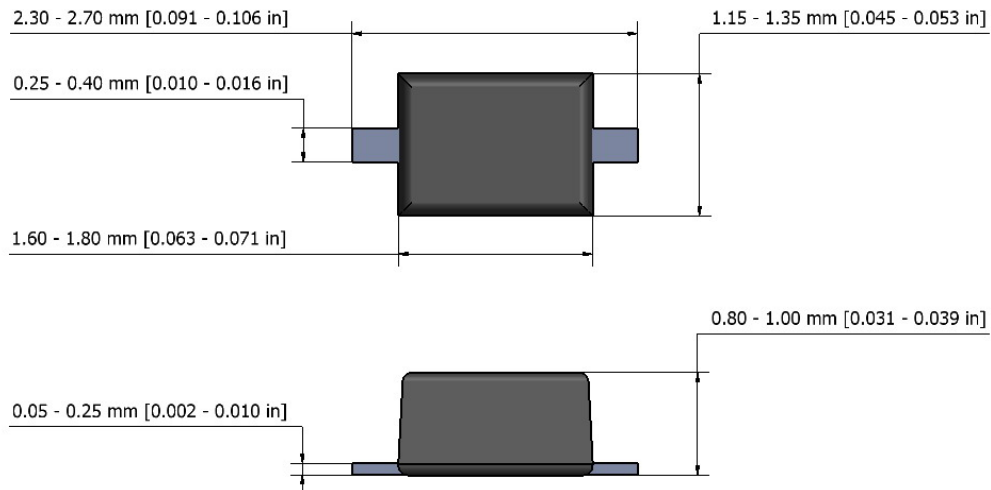
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

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

NOTE: The above package outline is similar to JEITA SC-90.

This datasheet presents technical data of Tak Cheong's Switching Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website <http://www.takcheong.com>.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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