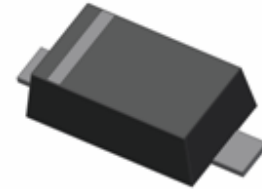
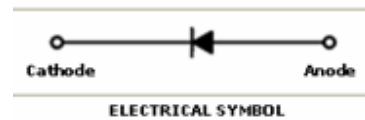


200mW SOD-523 SURFACE MOUNT
Very Small Outline Flat Lead Plastic Package
General Purpose Application
High Speed Switching Diode

Green Product



SOD-523 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	-55 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
I_{FSM}	Peak Forward Surge Current	500	mA
I_{FM}	Forward Current	200	mA

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

Specification Features:

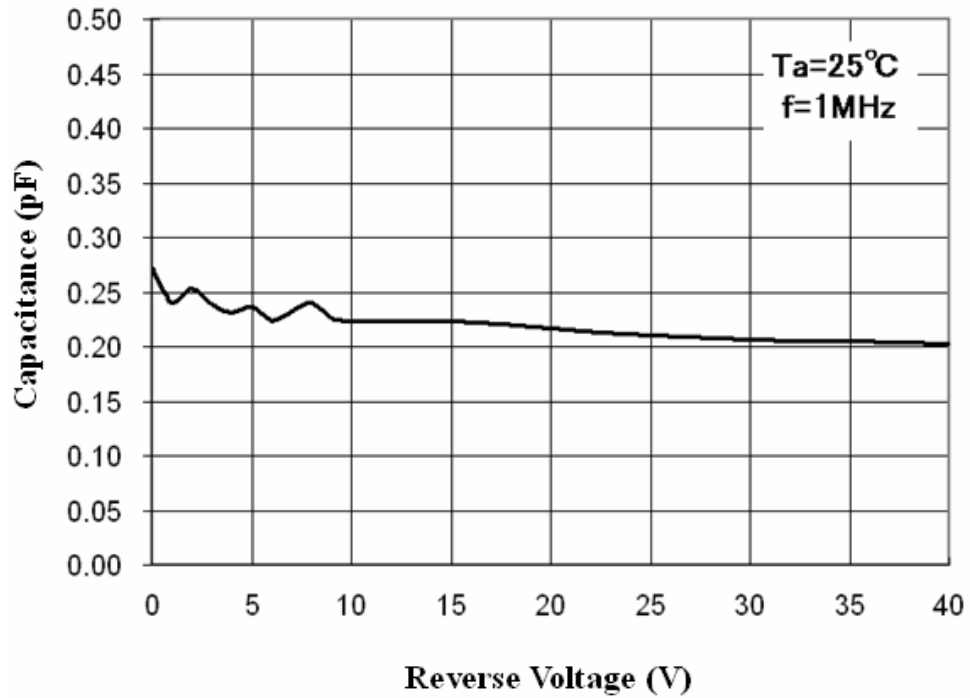
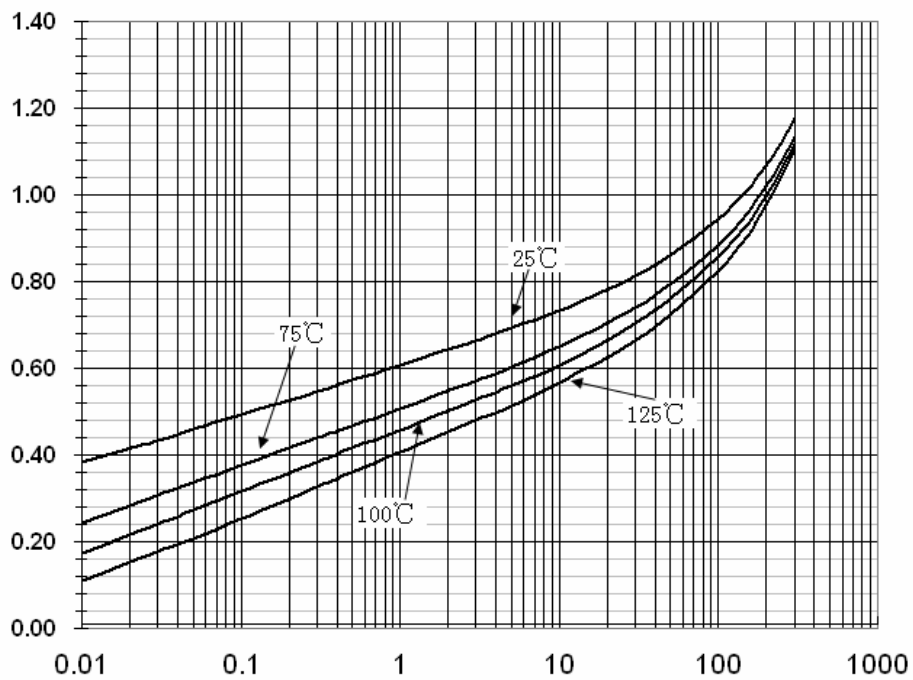
- Fast Switching Device ($T_{RR} < 4.0 \text{ nS}$)
- High Speed Switching Diodes
- Extremely Small SOD-523 Package
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

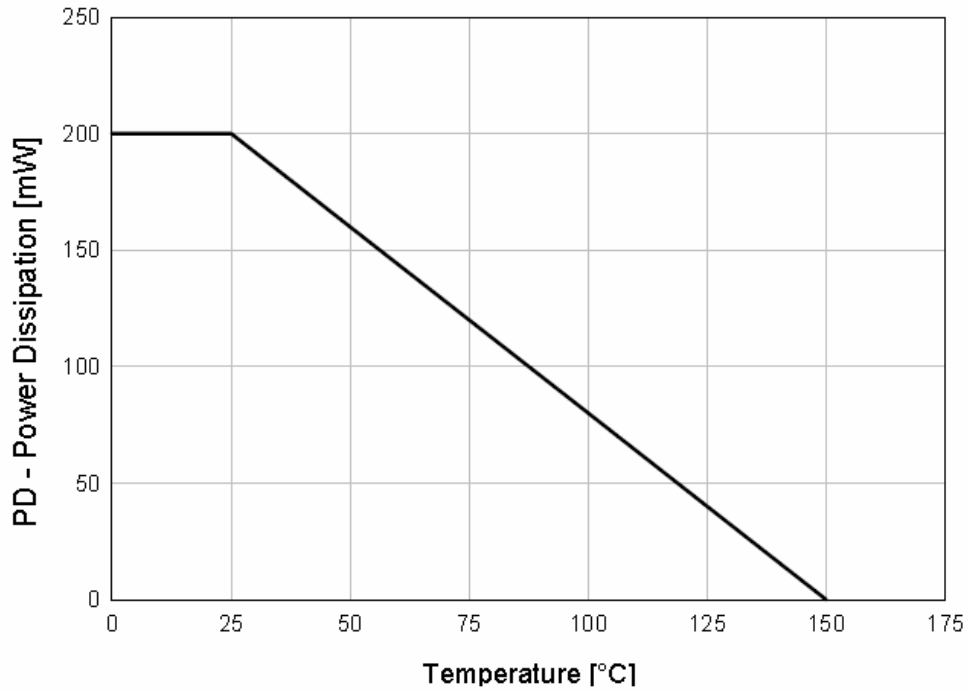
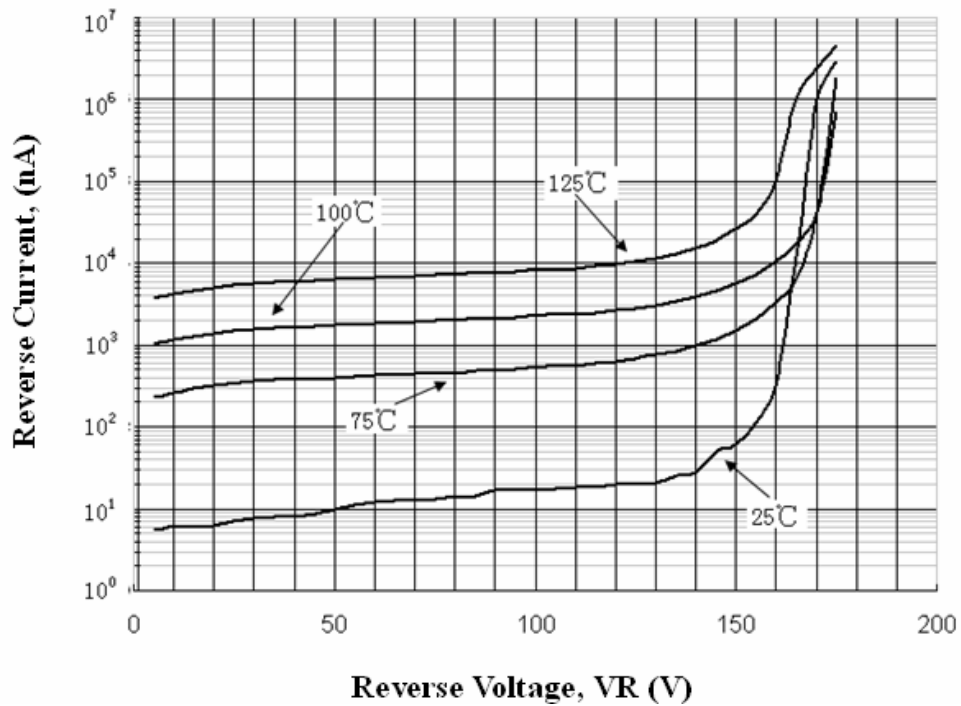
DEVICE MARKING CODE:

Device Type	Device Marking
TC1SS400	E4

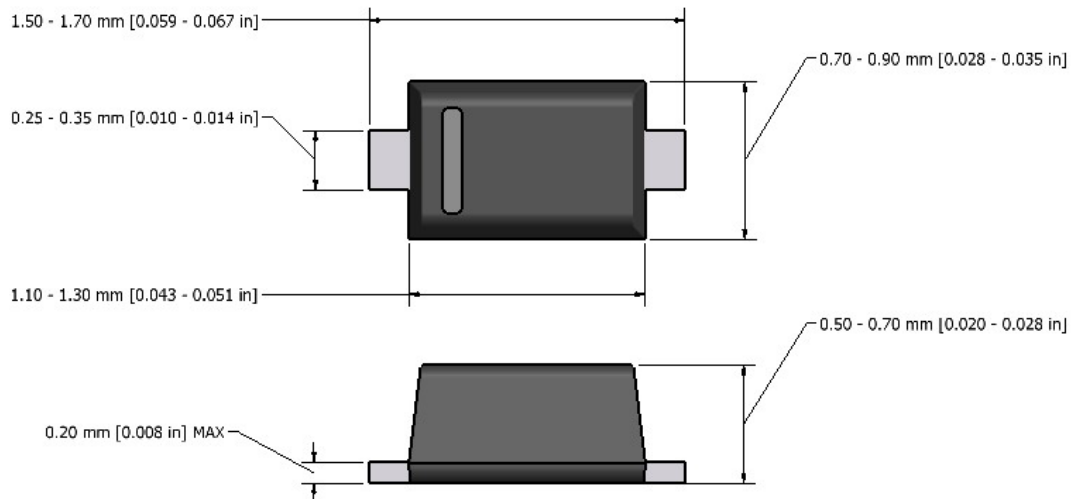
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R = 100\mu\text{A}$	100		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



Flat Lead SOD-523 Package Outline



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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