

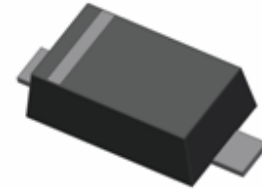
200mW SOD-523 SURFACE MOUNT

Very Small Outline Flat Lead Plastic Package

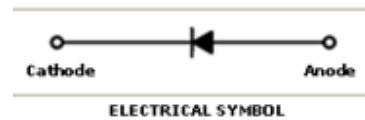
General Purpose Application

High Speed Switching Diode

Green Product



SOD-523 Flat Lead



Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-55 to +125	°C
T _J	Operating Junction Temperature	+125	°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:

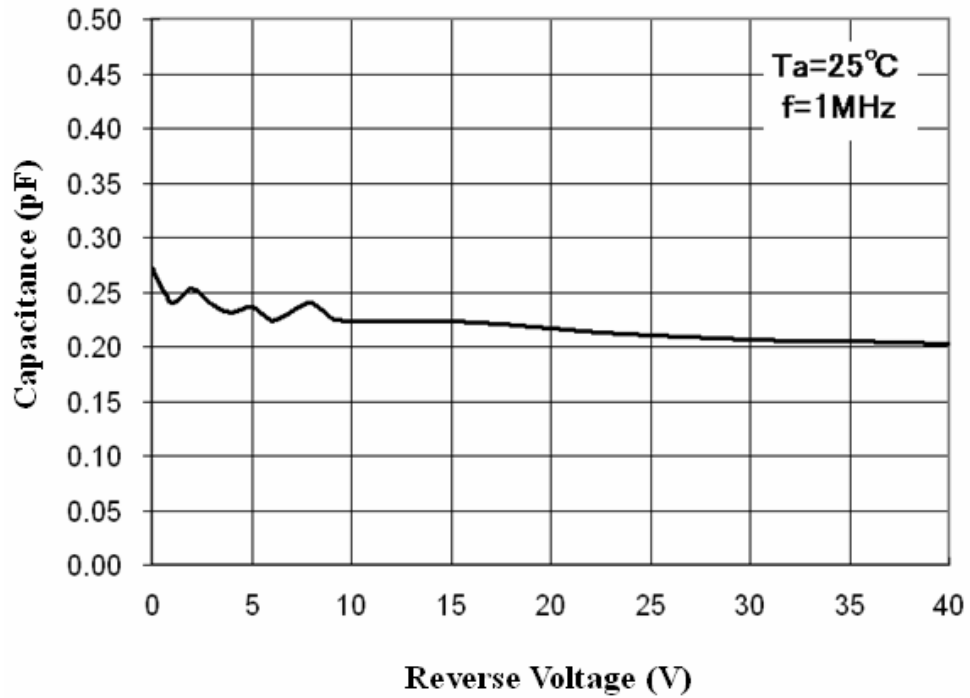
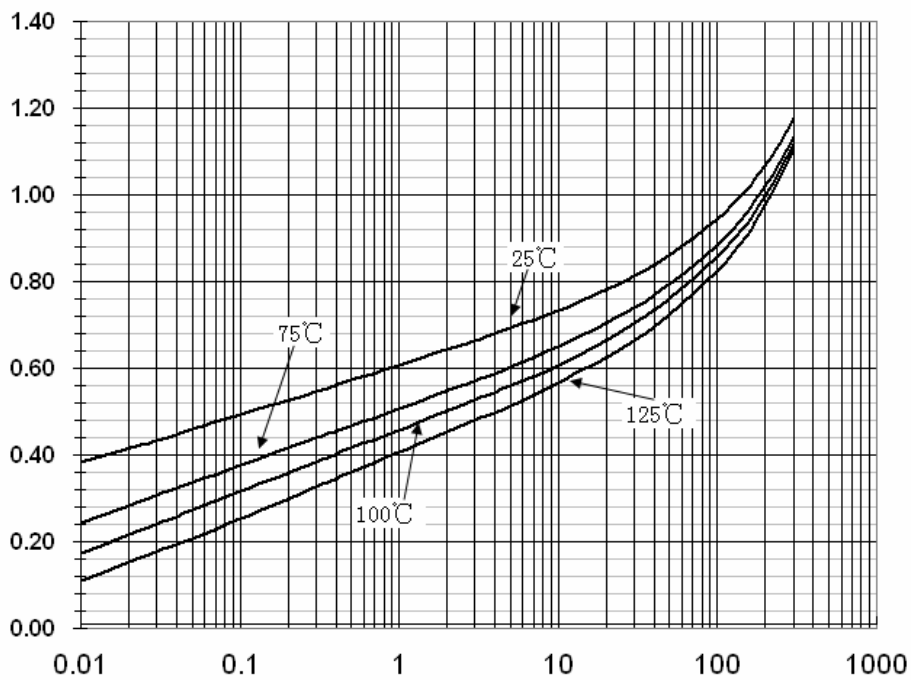
- Fast Switching Device (T_{RR} < 4.0 nS)
- High Speed Switching Diodes
- Extremely Small SOD-523 Package
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

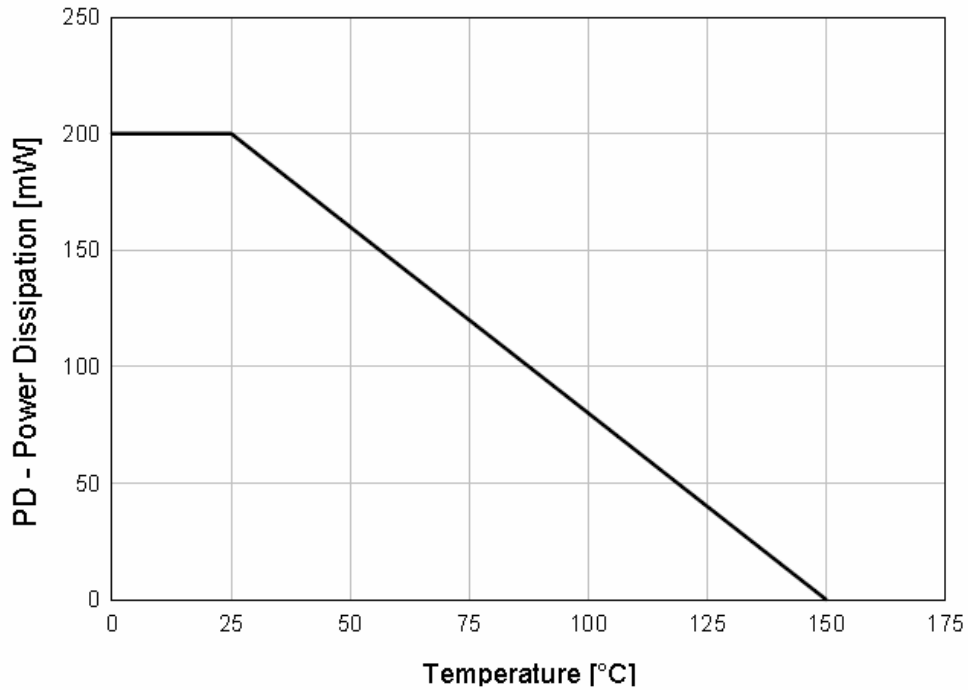
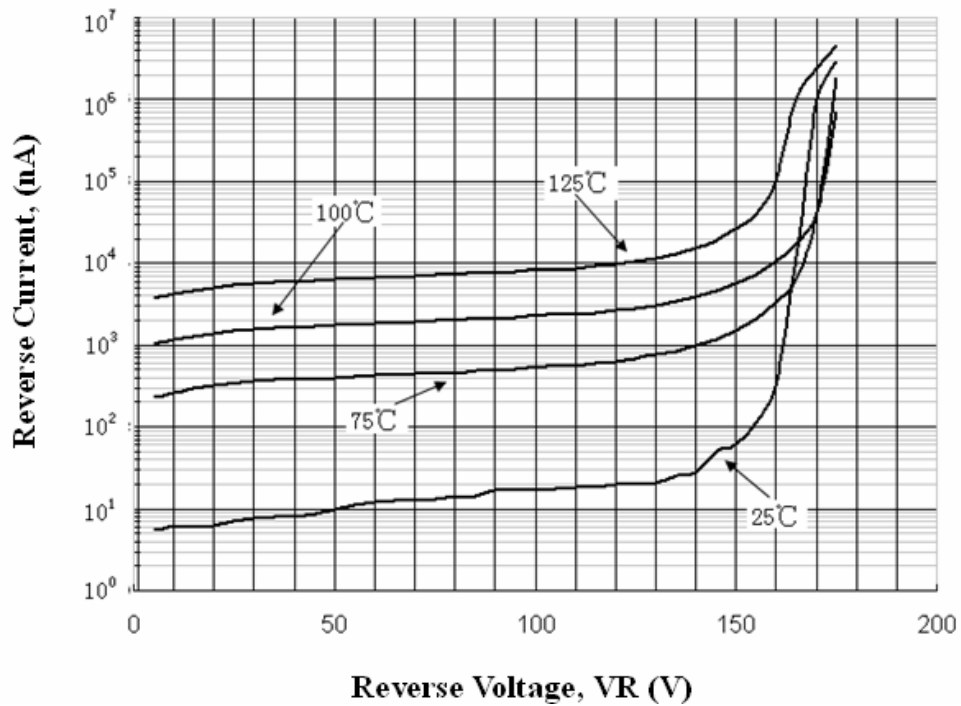
DEVICE MARKING CODE:

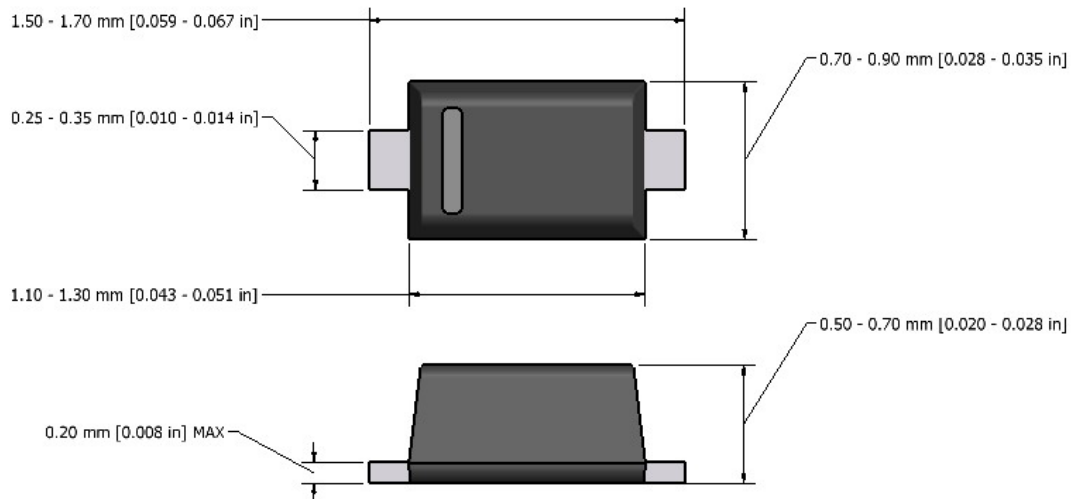
Device Type	Device Marking
1SS422	E5

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B _V	Breakdown Voltage	I _R =100μA	100		Volts
I _R	Reverse Leakage Current	V _R =85V		100	nA
V _F	Forward Voltage	I _F =150mA		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



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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