

SEMICONDUCTOR

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

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

J						
Symbol	Parameter V		Units			
PD	Power Dissipation	200	mW			
T _{STG}	Storage Temperature Range	-55 to +125	°C			
TJ	Operating Junction Temperature	+125	°C			
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V			
I _{FSM}	Peak Forward Surge Current (Pulse Width=1s)	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

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

Symbol	Parameter	Test Condition	Limits		Unit
	Farameter		Min	Max	Unit
Bv	Breakdown Voltage	I _R =100μΑ	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		4	nS
		$R_L=100\Omega$			
С	Capacitance	V_R =0.5V, f=1 M_{HZ}		4	pF

Green Product

SOD-523 Flat Lead



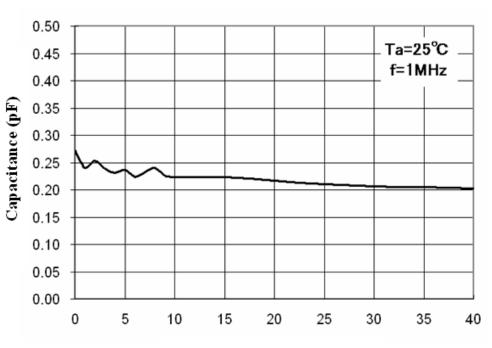
ELECTRICAL SYMBOL

DEVICE MARKING CODE:

Device Type	Device Marking			
1SS422	E5			

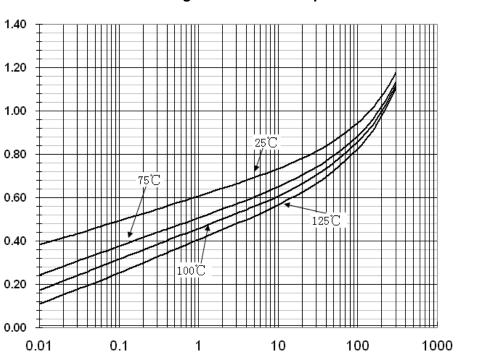


Typical Performance Characteristics



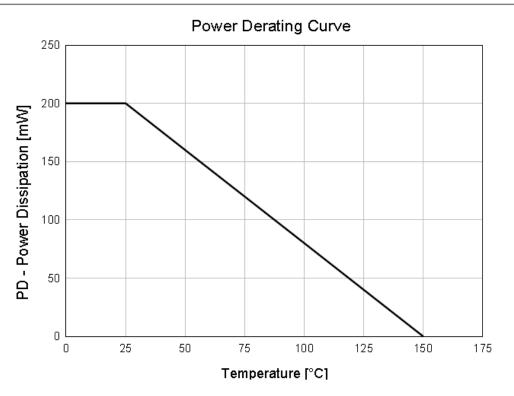
Total Capacitance

Reverse Voltage (V)

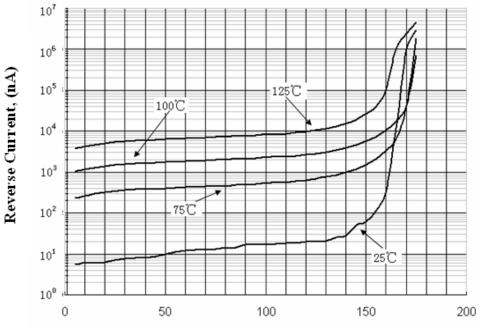


Forward Voltage vs Ambient Temperature







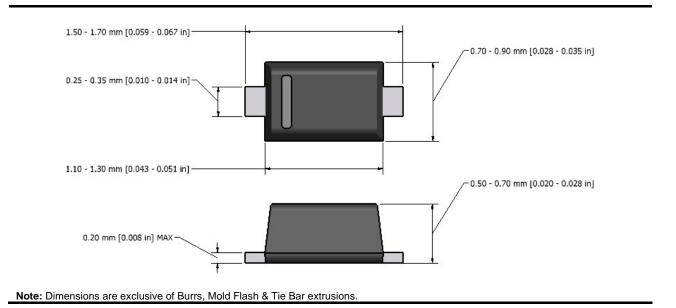


Reverse Voltage, VR (V)



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Flat Lead SOD-523 Package Outline





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 with 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 damagers resulting from such improper use of sale.

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