

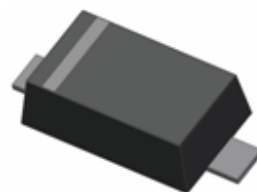
## 200mW SOD-523 SURFACE MOUNT

### Very Small Outline Flat Lead Plastic Package

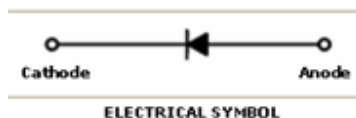
### General Purpose Application

### High Speed Switching Diode

Green Product



SOD-523 Flat Lead



#### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

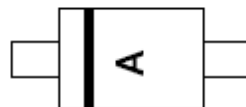
Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	200	mW
$T_{STG}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+150	$^\circ\text{C}$
$V_{RSM}$	Non-Repetitive Peak Reverse Voltage	100	V
$I_{FSM}$	Peak Forward Surge Current (Pulse Width=1s)	500	mA
$I_{FM}$	Forward Current	200	mA

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

#### Specification Features:

- Fast Switching Device ( $T_{RR} < 4.0 \text{ nS}$ )
- 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:

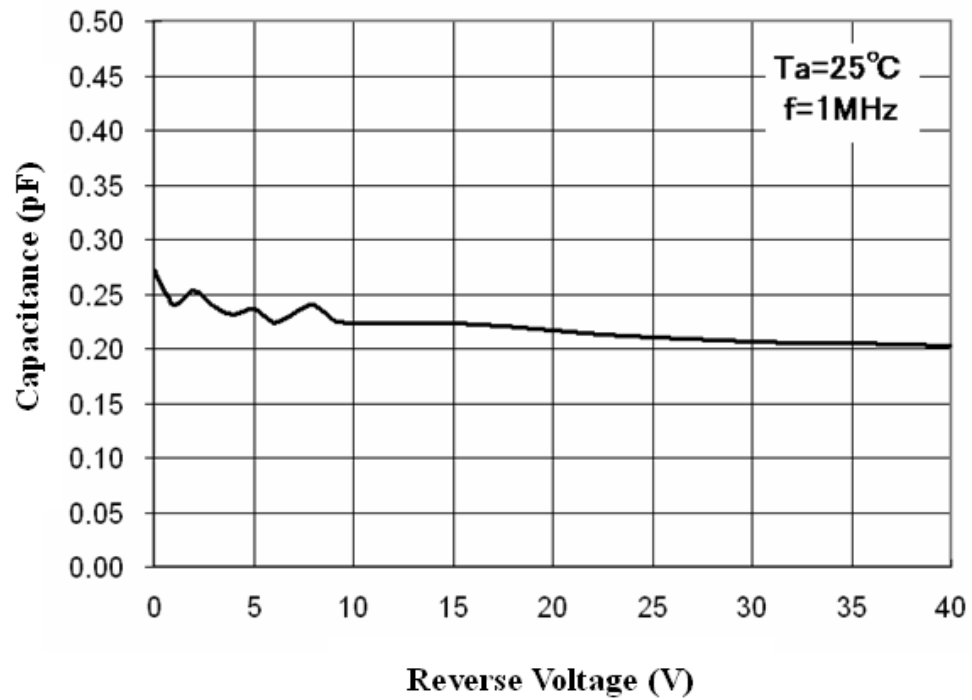


#### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

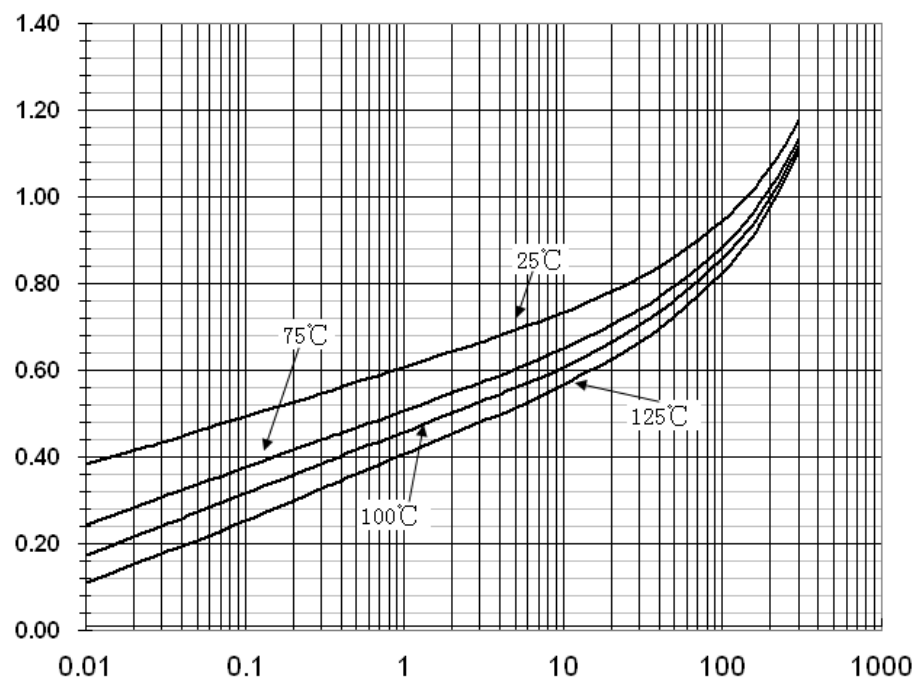
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$B_V$	Breakdown Voltage	$I_R = 100\mu\text{A}$	100		Volts
$I_R$	Reverse Leakage Current	$V_R = 80\text{V}$		100	nA
$V_F$	Forward Voltage	$I_F = 100\text{mA}$		1.2	Volts
$T_{RR}$	Reverse Recovery Time	$I_F = 10\text{mA}$ $V_R = 6\text{V}$ $R_L = 100\Omega$		4	nS
$C$	Capacitance	$V_R = 0.5\text{V}$ , $f = 1\text{MHz}$		4	pF

## Typical Performance Characteristics

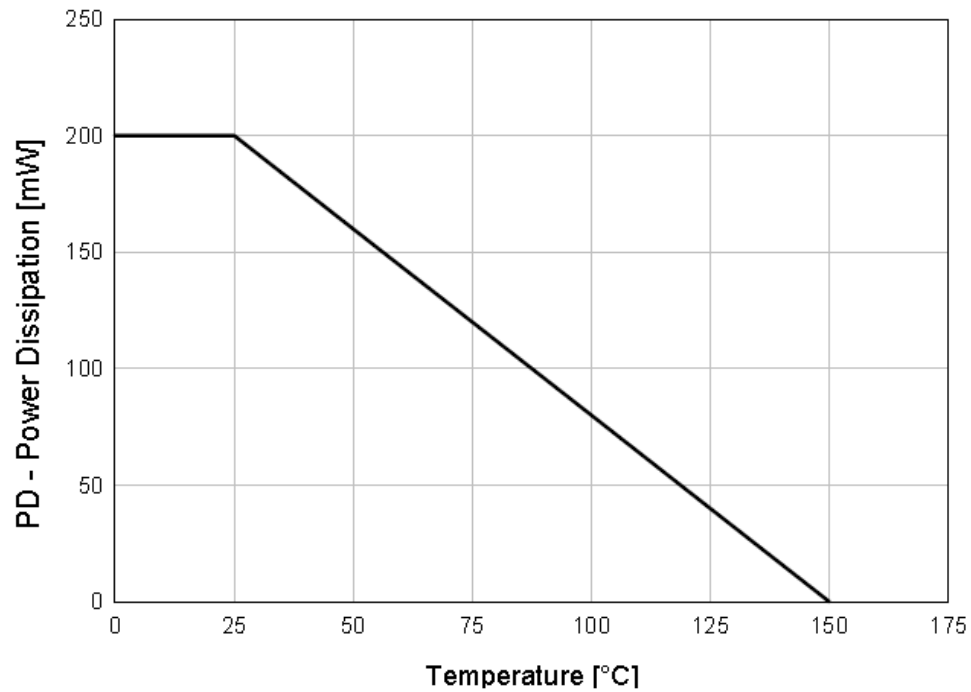
Total Capacitance



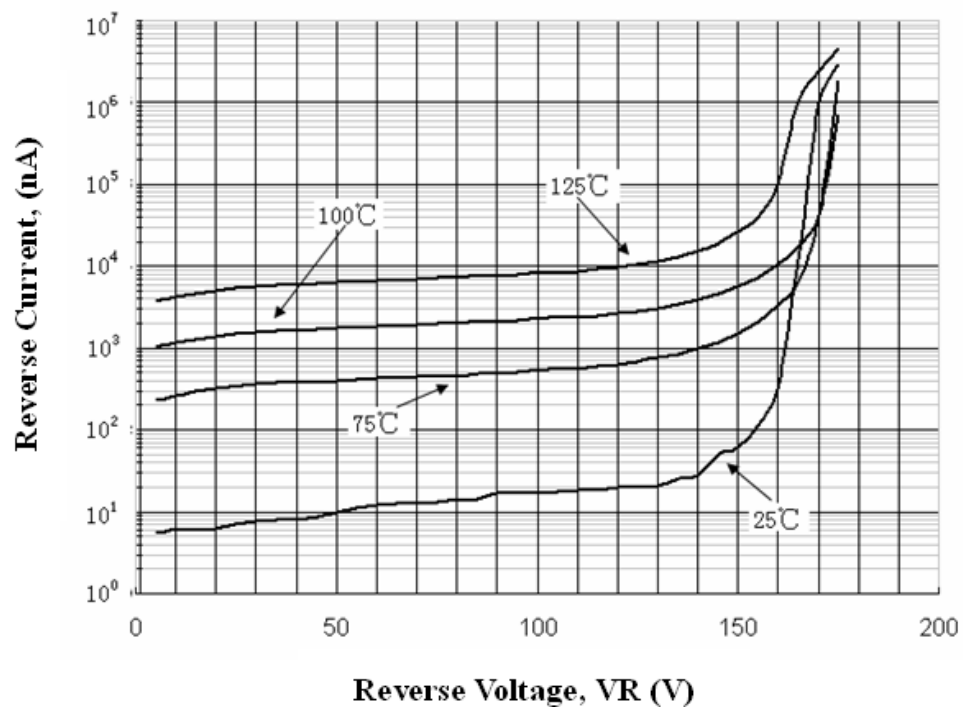
Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage



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**Flat Lead SOD-523 Package Outline**

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