

# 200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Schottky Barrier Diode

#### **Absolute Maximum Ratings** $T_A = 25$ °C unless otherwise noted

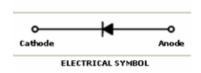
Symbol	Parameter	Value	Units	
P <sub>D</sub>	Power Dissipation	200	mW	
T <sub>STG</sub>	Storage Temperature Range	-55 to +125	°C	
TJ	Operating Junction Temperature	+125	°C	
$V_R$	Reverse Voltage	30	V	
I <sub>F(AV)</sub>	Average Forward Current	200	mA	
I <sub>FSM</sub>	Peak Forward Surge Current (At 8.3ms single half sine-wave)	1	А	

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

## **Green Product**



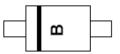
SOD-523 Flat Lead



### **Specification Features:**

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

#### **DEVICE MARKING CODES:**



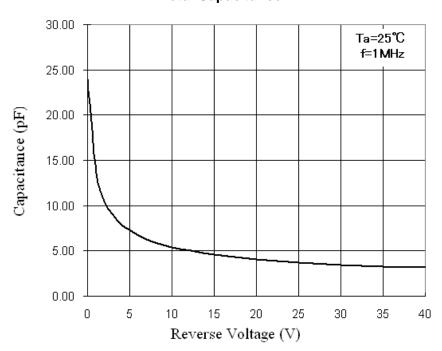
#### **Electrical Characteristics** $T_A = 25$ °C unless otherwise noted

	Parameter	Test Condition	Limits		
Symbol			Min	Max	Unit
Ву	Breakdown Voltage	I <sub>R</sub> =500μA	30		Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =10V		1	μA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =200mA		0.6	Volts

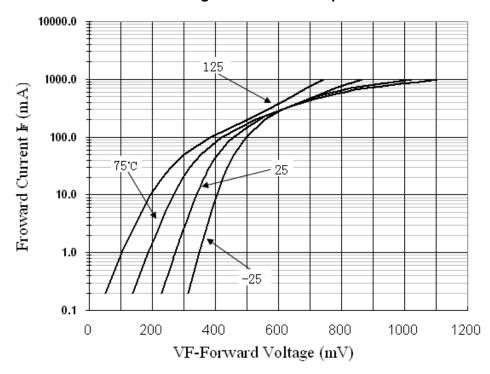


### **Typical Performance Characteristics**

## **Total Capacitance**

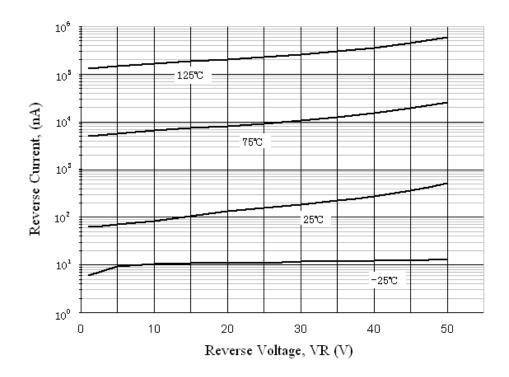


## Forward Voltage vs Ambient Temperature



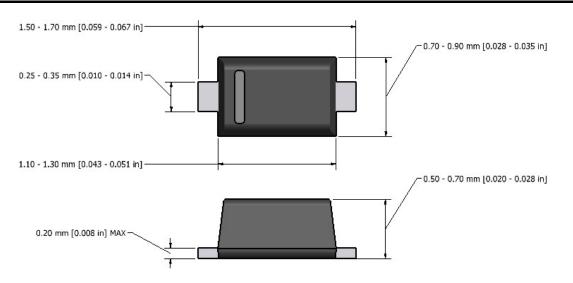


# Reverse Current vs Reverse VoltageReverse





### Flat Lead SOD-523 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.





### **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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