

#### FEATURES

- $\diamond$ Low Forward Voltage Drop
- $\diamond$  Flat Lead SOD-523 Small Outline Plastic Package
- ♦ Extremely Small SOD-523 Package
- $\diamond$ Surface Device Type Mounting
- ♦ROHS Compliant
- $\diamond$ Green EMC
- ♦ Matte Tin(Sn) Lead Finish
- ♦Band Indicates Cathode
- ♦ Marking: B



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

## MAXIMUM RATINGS (@T =25°C unless otherwise noted)

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	200	mW
T <sub>STG</sub>	Storage Temperature Range	-55to+125	°C
TJ	Operating Junction Temperature	+125	°C
V <sub>R</sub>	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	A
l <sup>2</sup> t	Typical Current Squarad Time	0.004	A <sup>2</sup> /Sec

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

## **ELECTRICAL CHARACTERISTICS** (@T =25°C unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Breakdown Voltage at I <sub>R</sub> =500uA	Bv	30			Volts
Reverse Leakage Current at $V_R$ =10V	I <sub>R</sub>			1	uA
Forward Voltage at I <sub>F</sub> =200mA	V <sub>F</sub>			0.6	Volts







### SOD-523 PACKAGE OUTLINE DIMENSIONS



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



# **Packing Specification**





Packing Quantity									
Reel		Inner Box		Carton					
Size	Quantity Per Reel	Size	Quantity Per Reel	Size	Quantity Per Reel				
7 (inch)	3,000pcs	183*188*80 (mm)	18,000pcs	386*265*215 (mm)	108,000pcs				



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