

## Features

- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 400°C/W Junction to Ambient

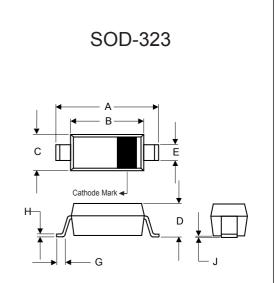
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B0530WS	SE	30V	21V	30V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	0.5A	T <sub>A</sub> =90°C
Peak Forward Surge Current	I <sub>FSM</sub>	5A	8.3ms half sine
Power Dissipation	P <sub>d</sub>	250mW	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.55V	I <sub>F</sub> =0.5A TJ=25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.3mA	T <sub>A</sub> =25°C
Typical Junction Capacitance	CJ	30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

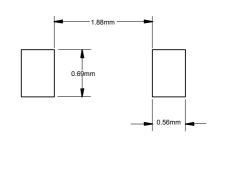
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# 250mW, 30 Volt Schottky Barrier Diode



DIMENSIONS							
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.090	0.107	2.30	2.70			
В	0.063	0.071	1.60	1.80			
С	0.045	0.053	1.15	1.35			
D	0.031	0.045	0.80	1.15			
E	0.010	0.016	0.25	0.40			
G	0.004	0.018	0.10	0.45			
Н	0.004	0.010	0.10	0.25			
J		0.006		0.15			

#### Suggested Solder Pad Layout





## **Curve Characteristics**

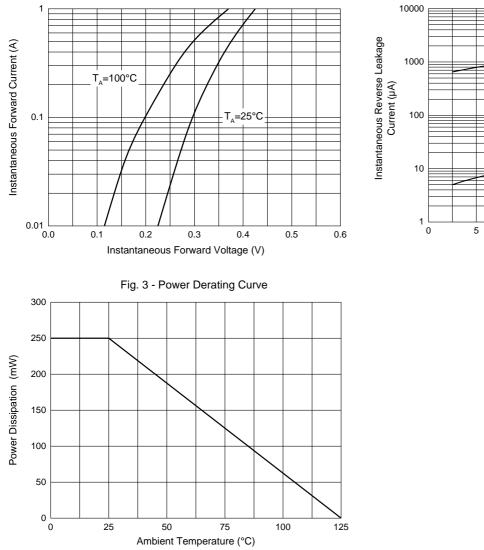
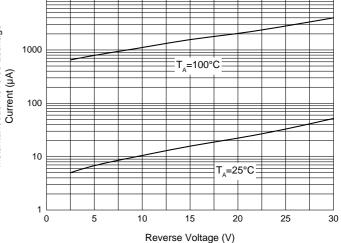


Fig. 1 - Typical Instantaneous Forward Characteristics







## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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