

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

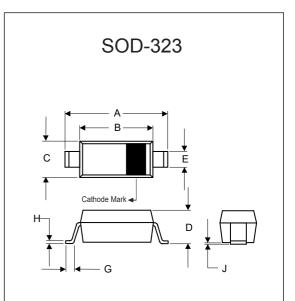
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
BSR106WS	SM / X6	60V	42V	60V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	Tc = 90°C	
Peak Forward Surge Current	I <sub>FSM</sub>	10A	8.3ms Half Sine	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.70V	I <sub>FM</sub> =1A; T <sub>J</sub> = 25°C (Note 1)	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA	T <sub>J</sub> = 25°C	
Typical Junction Capacitance	С	120pF	Measured at 1.0MHz , V <sub>R</sub> =0V	

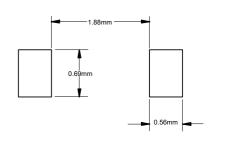
Notes: 1. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

# 1 Amp Schottky Barrier Rectifier 60 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	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**

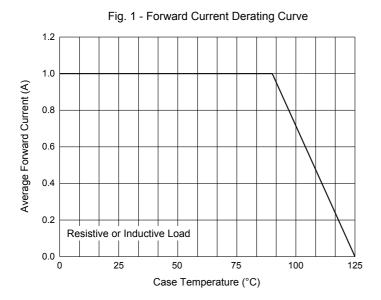


Fig. 3 - Typical Reverse Leakage Characteristics

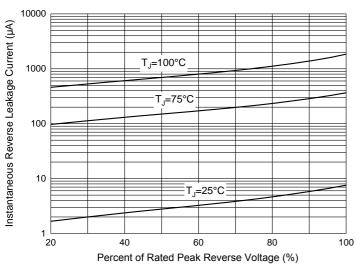
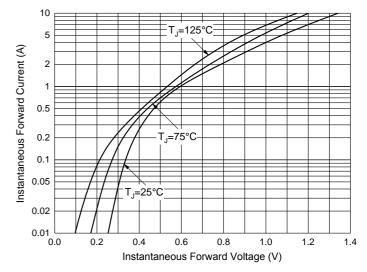


Fig. 2 - Typical Instantaneous Forward Characteristics





### **Ordering Information**

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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