

#### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop And Low Switching Noise
- High Current Capability And High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

# 3 Amp Schottky Barrier Rectifier 50 to 100 Volts

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 30°C/W Junction to Ambient

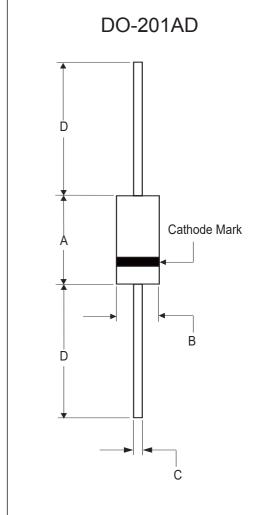
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR305	SR305	50V	35V	50V
SR306	SR306	60V	42V	60V
SR308	SR308	80V	56V	80V
SR3010	SR3010	100V	70V	100V

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

Average Forward Current	I <sub>F(AV)</sub>	3.0A	T <sub>A</sub> =85°C
Peak Forward Surge Current	I <sub>FSM</sub>	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SR305-SR306 SR308-SR3010	V <sub>F</sub>	0.72V 0.85V	I <sub>FM</sub> =3.0A; T <sub>J</sub> =25°C (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 10mA	T <sub>J</sub> =25°C; T <sub>J</sub> =100°C
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Note :1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

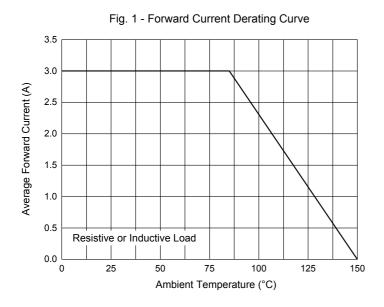
2. Pulse test: Pulse width 300  $\mu sec$ , Duty cycle 1%

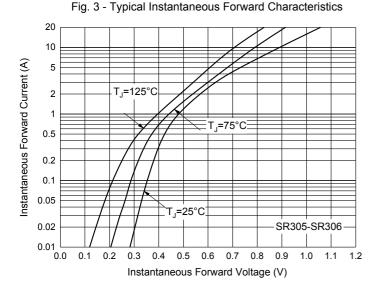


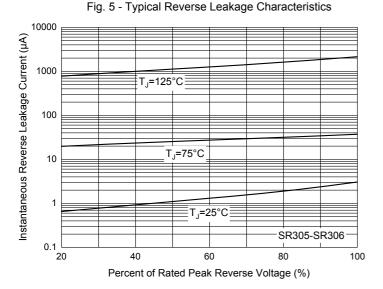
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.287	0.374	7.30	9.50	
В	0.189	0.208	4.80	5.30	
С	0.048	0.052	1.20	1.30	
D	1.000		25.40		



#### **Curve Characteristics**







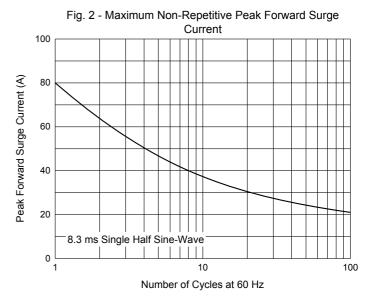


Fig. 4 - Typical Instantaneous Forward Characteristics

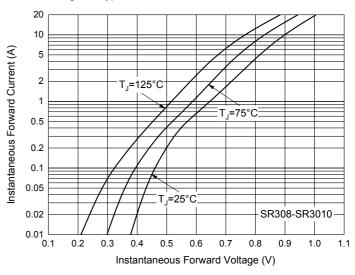
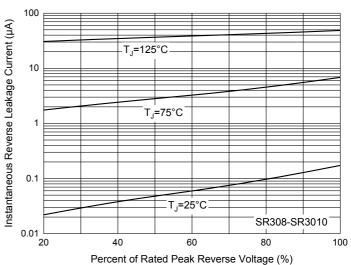


Fig. 6 - Typical Reverse Leakage Characteristics





## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel	
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box	
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton	

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

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