

**Micro Commercial Components** 



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## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Forward Voltage Drop andLow 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"

## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30 °C/W Junction To Ambient

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

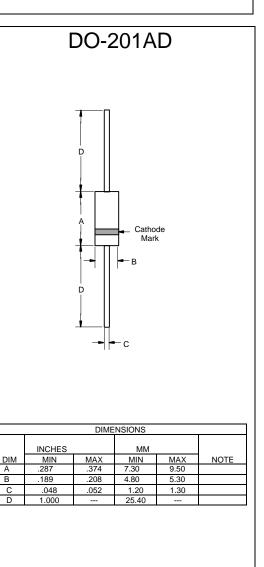
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	3.0A	$T_A = 85^{\circ}C$
Peak Forward Surge Current	I <sub>FSM</sub>	80A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
SR305-306 SR308-3010	$V_{F}$	.72V .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>	1.0mA 30mA	$T_{J} = 25^{\circ}C$ $T_{J} = 100^{\circ}C$
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.Pulse test: Pulse width 300 µsec, Duty cycle 1%

# SR305 THRU SR3010

## 3 Amp Schottky Barrier Rectifier 50 to 100 Volts



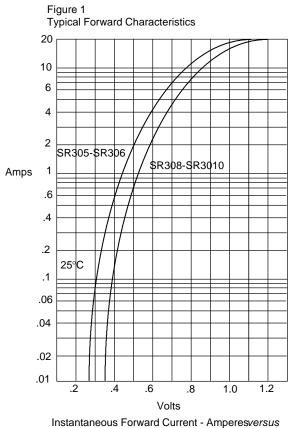
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### **Revision: B**

#### 2013/01/01

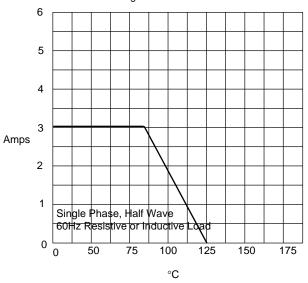
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## SR305 thru SR3010

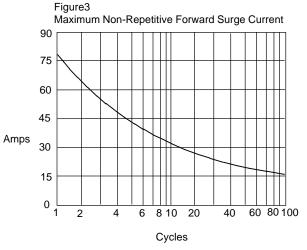


Instantaneous Forward Current - Amperesvers Instantaneous Forward Voltage - Volts

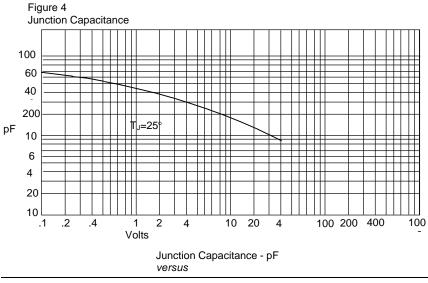
Figure 2 Micro Commercial Components Forward Derating Curve



Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $-^{\circ}C$ 



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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## **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: 12Kpcs/Carton	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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