

**M·C·C·**

Micro Commercial Components



Micro Commercial Components  
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**SR802  
THRU  
SR810**

## Features

- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix designates RoHS 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

## Maximum Ratings

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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR802	SR802	20V	14V	20V
SR803	SR803	30V	21V	30V
SR804	SR804	40V	28V	40V
SR8045	SR8045	45V	31.5V	45V
SR805	SR805	50V	35V	50V
SR806	SR806	60V	42V	60V
SR808	SR808	80V	56V	80V
SR810	SR810	100V	70V	100V

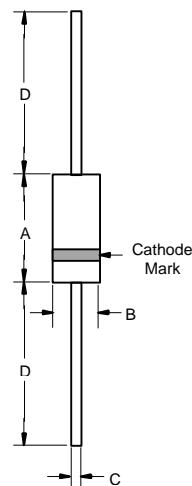
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	$T_A = 90^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SR802-SR8045 SR805-SR806 SR808-SR810	$V_F$	.65V .70V .85V	$I_{FM} = 8.0\text{A};$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	0.5mA 50mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance SR802-SR8045 SR805-SR806 SR808-SR810	$C_J$	500pF 380pF 165pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

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

**8 Amp Schottky  
Barrier Rectifier  
20 - 100 Volts**

**DO-201AD**



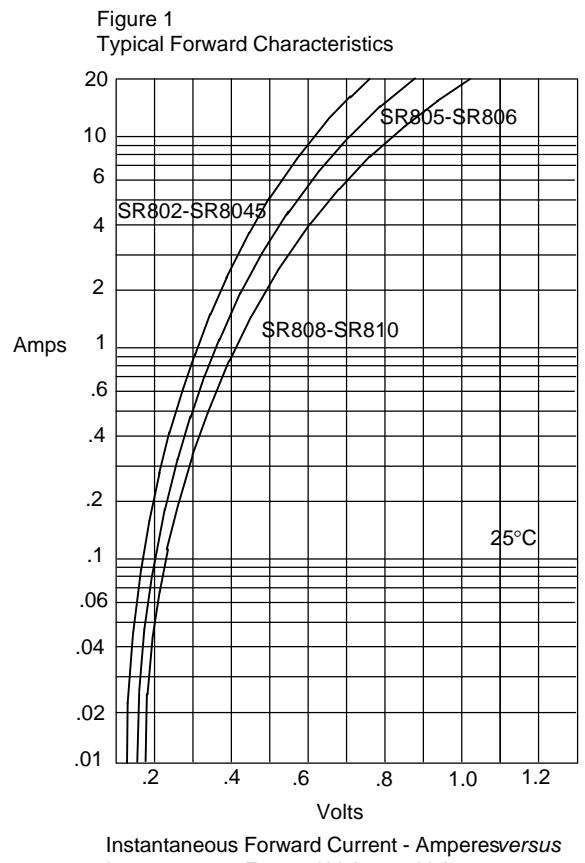
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

# SR802 thru SR8010

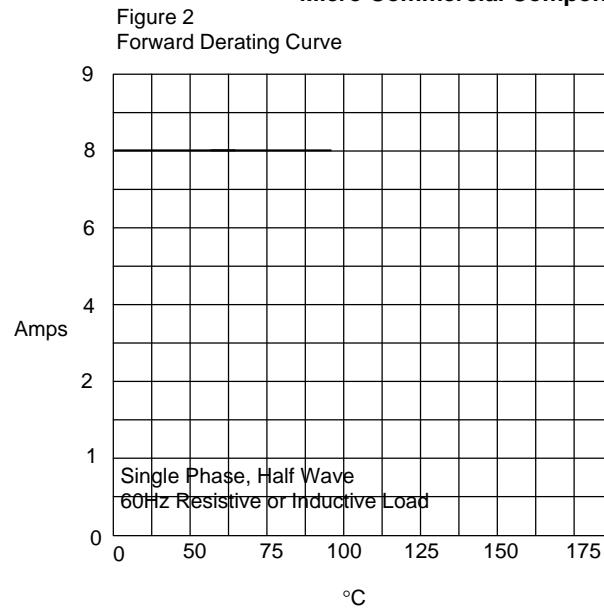
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TM

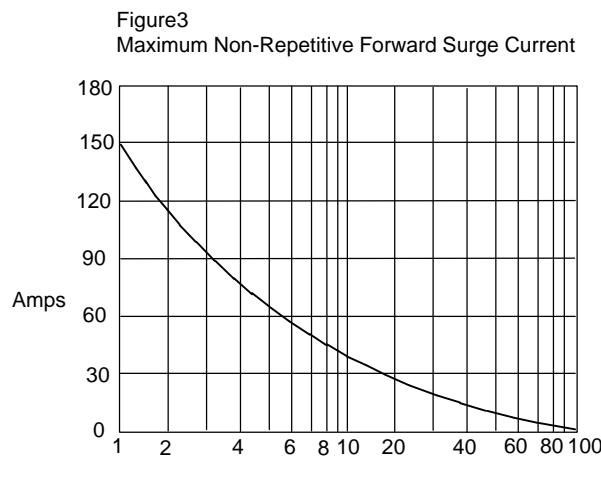
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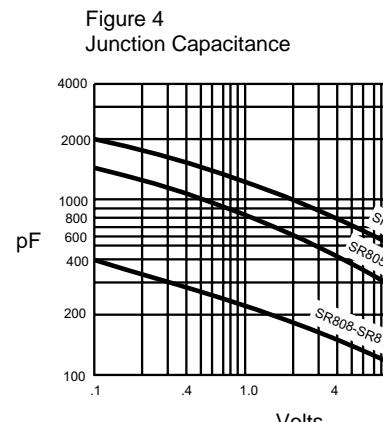
Instantaneous Forward Current - Amperesversus  
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperesversus  
Ambient Temperature - °C



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



Junction Capacitance - pF versus  
Reverse Voltage - Volts

## 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

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