



Micro Commercial Components

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# SR202 THRU SR206

## Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Extremely Low Thermal Resistance
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

## Maximum Ratings

- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +125°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR202	SR202	20V	14V	20V
SR203	SR203	30V	21V	30V
SR204	SR204	40V	28V	40V
SR206	SR206	60V	42V	60V

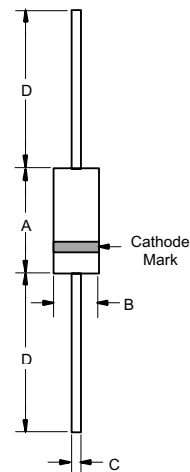
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average forward current	$I_{F(AV)}$	2A	Square wave
Maximum surge current	$I_{FSM}$	50A	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage SR202-SR204 SR206	$V_{FM}$	.55V .70V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$	1.0 mA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$	50pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

## 2 Amp Schottky Barrier Rectifier 20 - 60 Volts

### DO-41

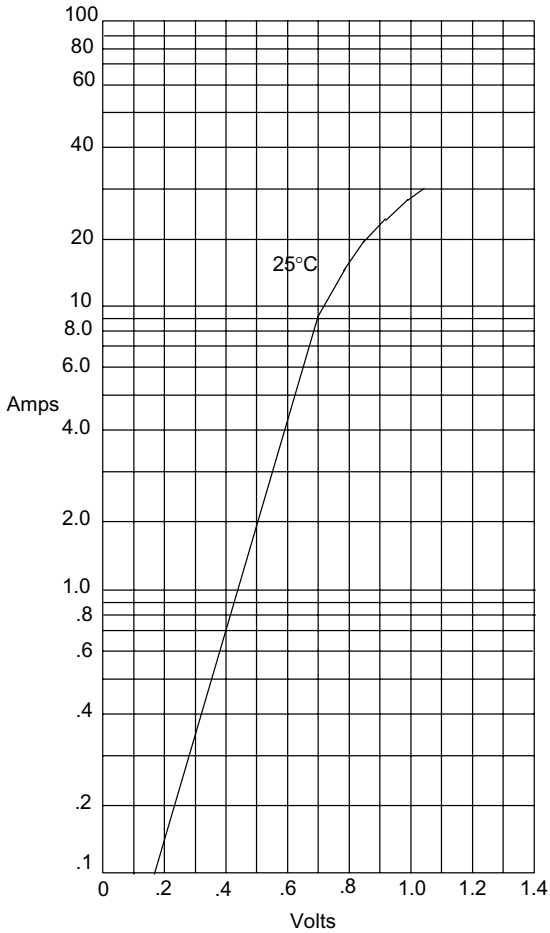


DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	

# SR202 thru SR206

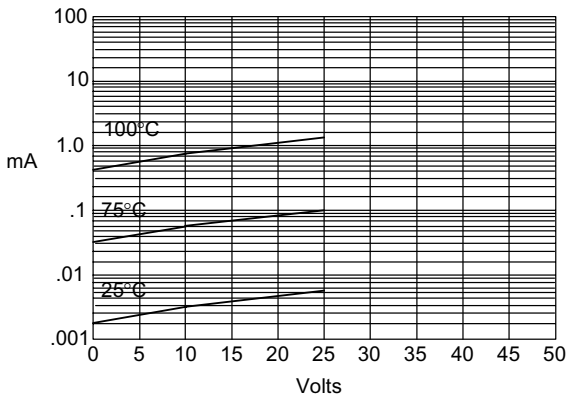


Figure 1  
Typical Forward Characteristics



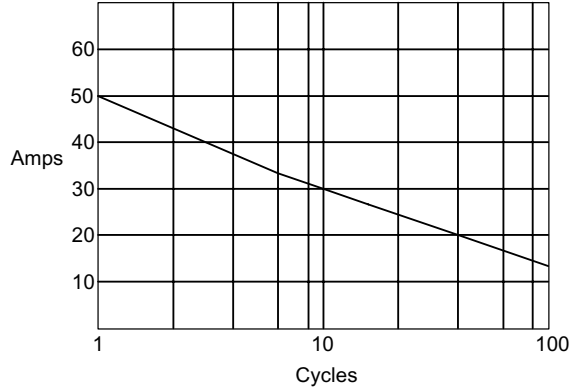
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



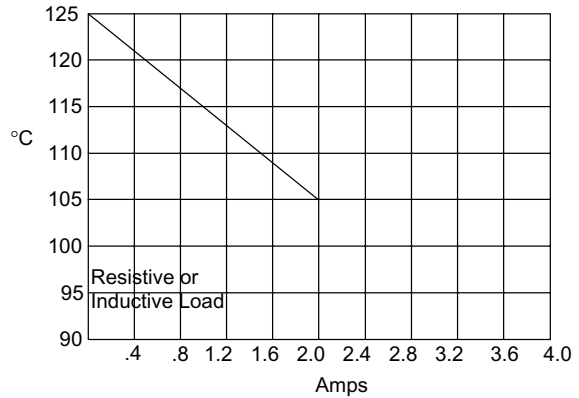
Typical Reverse Current - mA versus  
Reverse Voltage - Volts

Figure 3  
Maximum Nonrepetitive Surge Current



Peak Forward Current - Amperes versus  
Number of Cycles at 60Hz

Figure 4  
Forward Current Derating



Maximum Allowable Case Temperature °C versus  
Average Forward Current - Amperes



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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 5Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Box

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