

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

SR202 THRU SR206

Features

- **Guard Ring Protection**
- Low Forward Voltage Drop
- Low Power Loss for High Efficiency
- Reverse Energy Tested
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)
 Case Material: Molded Plastic. UL Flammability
 Classification Rating 94V-0 and MSL rating 1.

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, $T_J = 150^{\circ}C$
Max peak forward voltage	V_{FM}		I _{FM} = 2.0A; T _J = 25°C*
SR202-SR204 SR206		.55V .70V	
Max peak reverse current	I _{RM}	1.0 mA	V_{RRM} , $T_J = 25^{\circ}C$
Typical junction capacitance	С	50pF	$V_R = 5.0V, T_J = 25^{\circ}C$

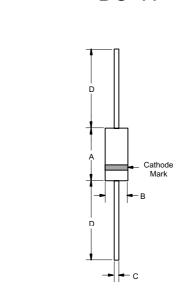
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

2 Amp Schottky **Barrier Rectifier** 20 - 60 Volts

DO-41



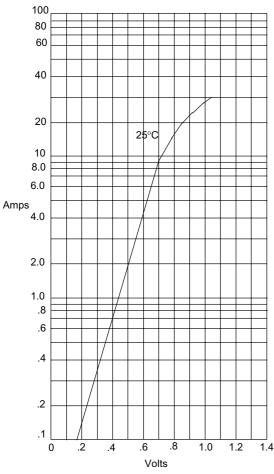


DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

SR202 thru SR206

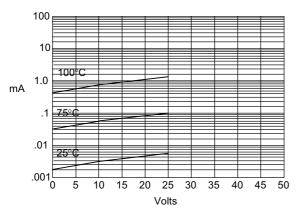


Figure 1 Typical Forward Characteristics



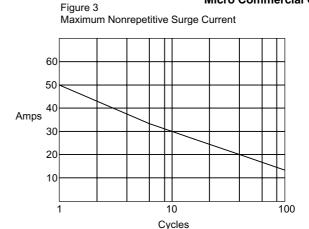
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2 Typical Reverse Characteristics



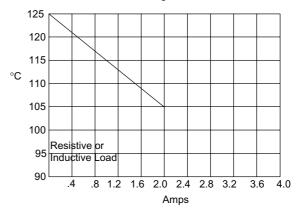
Typical Reverse Current - mAversus Reverse Voltage - Volts

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

Figure 4
Forward Current Derating



Maximum Allowable Case Temperature ^oC *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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