

# SR4020PT THRU SR4060PT

40.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 40.0 Amperes

### **Features**

- Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- ♦ Low power loss, high efficiency
- High current capability, low VF
- → High surge capability
- ♦ Epitaxial construction
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260°C/10 seconds, 0.17"(4.3mm)lead lengths at 5 lbs., (2.3kg) tension

### **Mechanical Data**

- ♦ Cases: JEDEC TO-3P/TO-247AD molded plastic
- ♦ Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting position: Any
- ♦ Weight: 0.2 ounce, 5.6 grams

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Dimensions in inches and (millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SR 4020PT	SR 4030PT	SR 4040PT	SR 4050PT	SR 4060PT	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	V
Maximum Average Forward Rectified Current at Tc=100°C	I <sub>(AV)</sub>	40				MMA	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	M. 10	OY.CO	400	\ .*1	WW	Α
Maximum Instantaneous Forward Voltage 20.0A (Note 3)	V <sub>F</sub>	- TV.	0.55	T.Mo.	0.70		V
Maximum D.C. Reverse Current @ $Tc=25^{\circ}$ C at Rated DC Blocking Voltage @ $Tc=100^{\circ}$ C	I <sub>R</sub>	V	100X.	1.0 75	LA A		mA mA
Typical Thermal Resistance Per Leg (Note 1)	$R\theta_{JC}$	1.2			T. A.	4	°C/W
Typical Junction Capacitance (Note 2)	N Cj	1100		600		pF	
Operating Junction Temperature Range	TJ	-65 to +125		-65 to +150		°C	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150				ဗ	

Notes: 1. Thermal Resistance from Junction to Case Per Leg, with Heatsink size (4" x 6" x 0.25")

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.
- 3. 300 us Pulse Width, 2% Duty Cycle

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



