

# SR2020PT THRU SR2060PT

20.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 20.0 Amperes

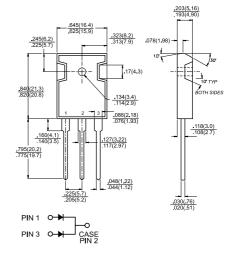
#### **Features**

- 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
- Guardring for transient protection
- High temperature soldering guaranteed: 250°C/10seconds,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

#### TO-3P/TO-247AD



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	SR2020PT	SR2030PT	SR2040PT	SR2050PT	SR2060PT	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current at Tc=105°C	20					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	250					Α
Maximum Instantaneous Forward Voltage @10.0A (Note 3)	0.550 0.700				V	
Maximum D.C. Reverse Current @ Tc=25°C	1.0 50					mΑ
at Rated DC Blocking Voltage @ Tc=100°C						mΑ
Typical Thermal Resistance Per Leg (Note 1)	1.5					°C/W
Typical Junction Capacitance (Note 2)		600		4(	00	pF
Operating Junction Temperature Range T <sub>J</sub>	-	-65 to +125		-65 to +150		°C
Storage Temperature Range Tstg	-65 to +150					°C

Notes: 1. Thermal Resistance from Junction to Case Per Leg.

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



### RATINGS AND CHARACTERISTIC CURVES (SR2020PT THRU SR2060PT)

