

SR3020PT THRU SR30100PT

30.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 100 Volts Current 30.0 Amperes

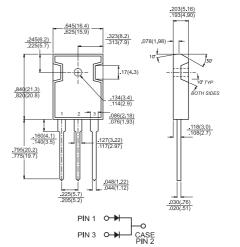
Features

- 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/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%

1 of capacitive load, defate current by 2070								
Type Number	Symbol	SR30 20PT	SR30 30PT	SR30 40PT	SR30 50PT	SR30 60PT	SR30 100PT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	100	V
Maximum Average Forward Rectified Current at Tc=100°C	I _(AV)	30						Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	300						А
Maximum Instantaneous Forward Voltage @ 15.0A (Note 3)	V _F	0.55 0.70			70	0.90	V	
Maximum D.C. Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I _R	1.0 75					mA mA	
Typical Thermal Resistance Per Leg (Note 1)	$R\theta_{JC}$	1.5						.C\M
Typical Junction Capacitance (Note 2)	Cj	750		500		340	pF	
Operating Junction Temperature Range	ΤJ	-65 to +125			-6	-65 to +150		°C
Storage Temperature Range	T_{STG}	-65 to +150						ပ္

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

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



