



SR2020PT - SR20150PT

20.0 AMPS. Schottky Barrier Rectifiers

TO-3P/TO-247AD



Features

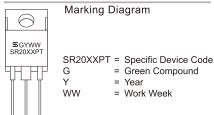
- UL Recognized File # E-326243
- Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency High current capability, low VF
- High surge capability
 Epitaxial construction
- For use in low voltage, high frequency inverters, free
- wheeling, and polarity protection applications
 Guardring for transient protection
- High temperature soldering guaranteed: 260°C/10seconds,0.17"(4.3mm)lead lengths at 5 lbs., (2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: JEDEC TO-3P/TO-247AD molded plastic
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting position: Any Weight: 6.10 grams

.323(8.2) 245(6.2) .840(21.3) .820(20.8) .134(3.4) 086(2.18) .118(3.0) 160(4.1 .795(20.2) .775(19.7) .048(1.22) PIN 1 O→ PIN 3 O→

Dimensions in inches and (millimeters)



Maximum Ratings and Electrical CharacteristicsRating 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 2020 PT	SR 2030 PT	SR 2040 PT	SR 2050 PT	SR 2060 PT	SR 2090 PT	SR 20100 PT	SR 20150 PT	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at Tc=105°C	I F(AV)	20							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							А	
Maximum Instantaneous Forward Voltage @10.0A	V _F	0.55			0.	70 0.		92	1.02	V
Maximum D.C. Reverse Current @Ta=25°C		0.5 0.1							mA	
at Rated DC Blocking Voltage @Ta=100 °C (Note 1) @Ta=125 °C	I _R	15			10		_			mA
							5.0			mA
Typical Junction Capacitance (Note 2)	Cj	600			40	.00		350		рF
Typical Thermal Resistance Per Leg (Note 3)	R _{0JC}	1.5						°C/W		
Operating Junction Temperature Range	TJ	-65 to +125 -65 to +150					°C			
Storage Temperature Range	Tstg	-65 to +150								°C

Notes: 1. 300 us Pulse Width, 2% Duty Cycle

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.
- 3. Mount on Heatsink size of 4" x 6" x 0.25" Al-Plate.

Version: D10



RATINGS AND CHARACTERISTIC CURVES (SR2020PT THRU SR20150PT)

