

SR4020PT - SR40100PT

40.0 AMPS. Schottky Barrier Rectifiers

TO-3P/TO-247AD

203(5.16)

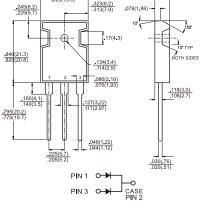


Features

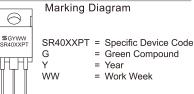
- ∻ UL Recognized File # E-326243
- ∻ Dual rectifier construction, positive center-tap
- ∻ Plastic package has Underwriters Laboratory
- Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction ∻
- ∻ Low power loss, high efficiency
- ∻ High current capability, low VF ¢
- High surge capability ¢ Epitaxial construction
- ♦ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260°C/ 10 seconds, 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: 6.14 grams ⊹



Dimensions in inches and (millimeters)



= Green Compound

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%

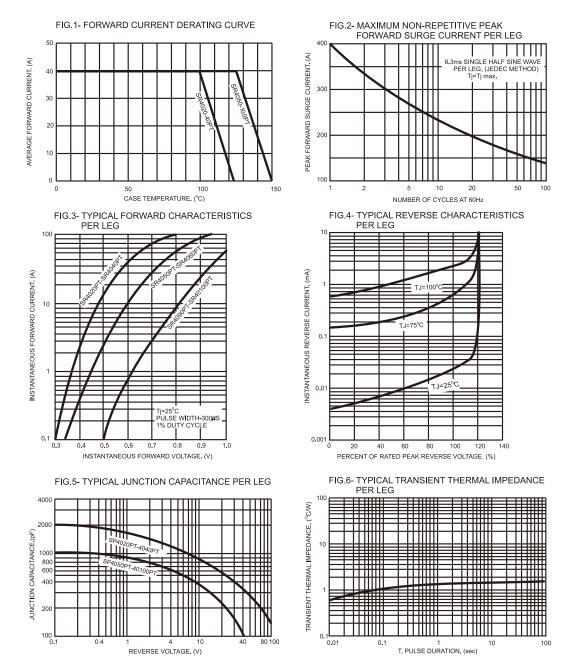
Type Number		Symbol	SR 4020 PT	SR 4030 PT	SR 4040 PT	SR 4050 PT	SR 4060 PT	SR 4090 PT	SR 40100 PT	Units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at TA=100 $^{\circ}\text{C}$		F(AV)	40						А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		FSM	400						А	
Maximum Instantaneous Forward Voltage 20.0A		VF	0.55 0.70			0.90		V		
Maximum D.C. Reverse Current at Rated DC Blocking Voltage (Note 1)	@ Ta=25 °C @Ta=100 °C @ Ta=125 °C	IR	1.0				0.5		mA	
			30		20		-		mA	
			-				10		mA	
Typical Junction Capacitance (Note 2)		Cj	1100		600		550		pF	
Typical Thermal Resistance Per Leg (Note 3)		Rejc	1.2						°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. with Heatsink size (4" x 6" x 0.25") AI-Plate.

Version: D10





RATINGS AND CHARACTERISTIC CURVES (SR4020PT THRU SR40100PT)

Version: D10