

SR3020PT - SR30150PT

30.0 AMPS. Schottky Barrier Rectifiers

TO-3P/TO-247AD

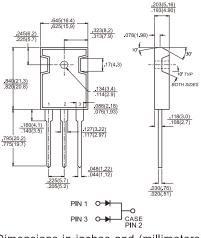


Features

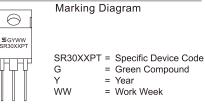
- ♦ UL Recognized File # E-326243
- ♦ Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory
- Flammability Classifications 94V-0
 ♦ Metal silicon junction, majority carrier conduction
- ♦ Low power loss, high efficiency
- ♦ High current capability, low VF
- ♦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



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%

Symbol	SR 3020 PT	SR 3030 PT	SR 3040 PT	SR 3050 PT	SR 3060 PT	SR 3090 PT	SR 30100 PT	SR 30150 PT	Units
VRRM	20	30	40	50	60	90	100	150	V
VRMS	14	21	28	35	42	63	70	105	V
VDC	20	30	40	50	60	90	100	150	V
F(AV)	30							А	
IFSM	300								А
VF	0.55			0.	70	0.90		1.00	V
1-	1.0 0.5							mA	
IR	20			15		10			mA
Cj	750			500		340		pF	
Rejc	1.5							°C/W	
TJ	-65 to +125 -65 to +150						°C		
TSTG	-65 to +150							°C	
	VRRM VRMS VDC IF(AV) IFSM VF IR Cj RØJC TJ	Symbol 3020 PT VRRM 20 VRMS 14 VDC 20 IF(AV) - IFSM - VF - IR - Cj - Rejc - Tj -65	Symbol 3020 PT 3030 PT VRM 20 30 VRMS 14 21 VDC 20 30 IF(AV)	Symbol 3020 PT 3030 PT 3040 PT VRM 20 30 40 VRMS 14 21 28 VDC 20 30 40 IF(AV) 20 30 40 IF(AV)	Symbol 3020 PT 3030 PT 3040 PT 3050 PT 3050 PT VRM 20 30 40 50 VRMS 14 21 28 35 VDC 20 30 40 50 IF(AV)	Symbol 3020 PT 3030 PT 3040 PT 3050 PT 3060 PT 3060 PT 3060 PT 3060 PT 3060 PT 97	Symbol 3020 PT 3030 PT 3040 PT 3050 PT 3060 PT 3060 PT 3090 PT VRM 20 30 40 50 60 90 VRMS 14 21 28 35 42 63 VDC 20 30 40 50 60 90 IF(AV)	Symbol 3020 PT 3030 PT 3040 PT 3050 PT 3060 PT 3060 PT 30700 PT 30700 PT 30700 PT 30700 PT 30700 PT 97 90 90 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 10	Symbol 3020 PT 3030 PT 3040 PT 3050 PT 3060 PT 3090 PT 30100 PT 3010 30100 30100

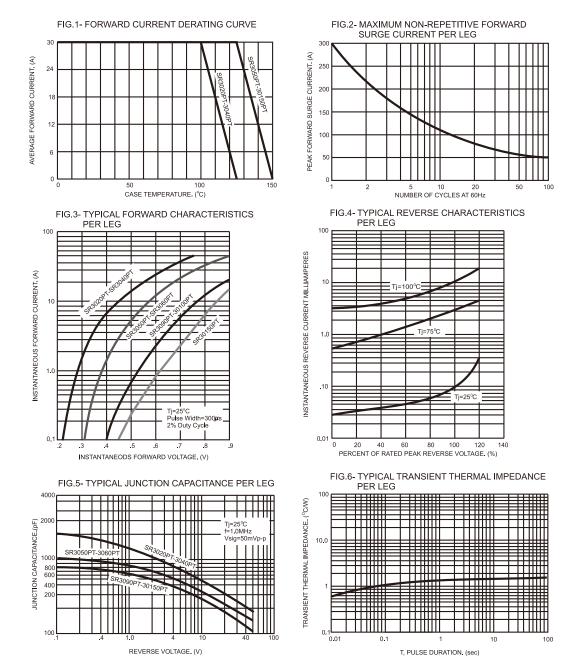
Notes: 1. 300 us Pulse Width, 2% Duty Cycle

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

3. Mount on Heatsink size (4" x 6" x 0.25") Al-Plate.

Version: D10





RATINGS AND CHARACTERISTIC CURVES (SR3020PT THRU SR30150PT)

Version: D10