





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/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.

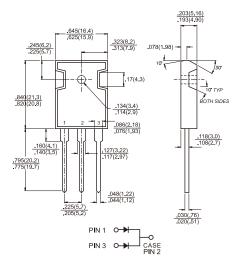
Mechanical Data

- 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: 5.6 grams

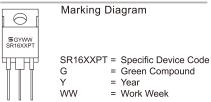
SR1620PT - SR16150PT

16.0 AMPS. Schottky Barrier Rectifiers

TO-3P/TO-247AD



Dimensions in inches and (millimeters)



Version: D10

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 1620 PT	SR 1630 PT	SR 1640 PT	SR 1650 PT	SR 1660 PT	SR 1690 PT	SR 16100 PT	SR 16150 PT	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current (See Fig. 1)	I F(AV)	16							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 @ 8.0A	VF		0.55		0.	70	0.	90	1.00	V
Maximum D.C. Reverse Current at Rated @TA = 25	С	0.5 0.					0.1		mA	
DC Blocking Voltage (Note 1) @TA = 100	c _{IR}		15		1	0		_		mA
@Ta =125 °	c					5			mA	
Typical Junction Capacitance (Note 2)	Cj	700		400					pF	
Typical Thermal Resistance Per Leg (Note3)	Rejc	3.0				°C/W				
Operating Junction Temperature Range	ΤJ		-65 to +125 -65 to +150				50	°C		
Storage Temperature Range	Tstg	-65 to +150				°C				

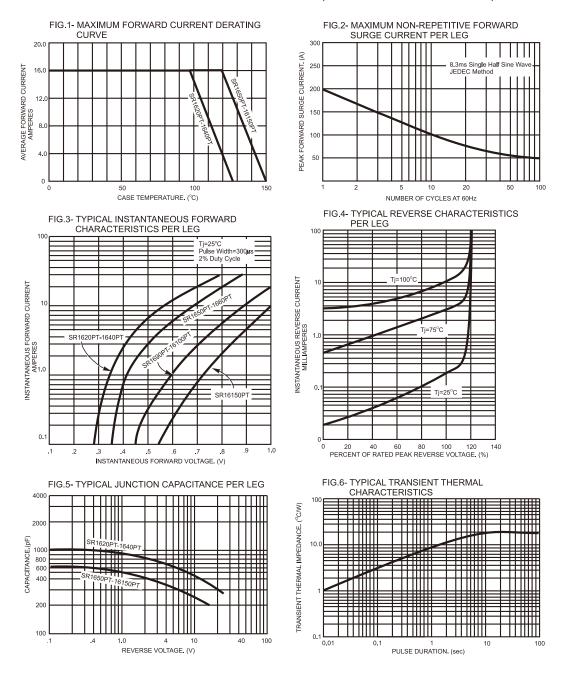
Notes: 1. 300 us Pulse Width, 2% Duty Cycle

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

3 Mount on Heatsink size of 2" x 3" x 0.25"Al-Plate.



RATINGS AND CHARACTERISTIC CURVES (SR1620PT THRU SR16150PT)



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