

SR1620PT THRU SR1660PT

16.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 16.0 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 Guardring for transient protection
- High temperature soldering guaranteed: 260°C/10 seconds, 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 .17(4.3) 820(20.8) 134(3.4) 795(20.2)

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%

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Type Number	Symbol	SR	SR	SR	SR	SR	Units
		1620PT	1630PT	1640PT	1650PT	1660PT	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	٧
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current (See Fig. 1)	I _(AV)	16					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200					Α
Maximum Instantaneous Forward Voltage @ 8.0A (Note 3)	V_{F}	0.55			0.70		>
Maximum D.C. Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I_R	0.5 50					mA mA
Typical Thermal Resistance Per Leg (Note 1)	$R heta_{JC}$	3.0					\$
Typical Junction Capacitance (Note 2)	Cj	700			4(00	pF
Operating Junction Temperature Range	TJ	-65 to +125			-65 to	+150	Ç
Storage Temperature Range	T_{STG}	-65 to +150					ρ

- Notes: 1. Thermal Resistance from Junction to Case Per Leg, Mount on Heatsink Size of 2 in x 3 in x 0.25 in Al-Plate.
 - 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.
 - 3. 300 us Pulse Width, 2% Duty Cycle



