

SR830T thru SR8100T

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 100 Volts FORWARD CURRENT - 8.0 Amperes

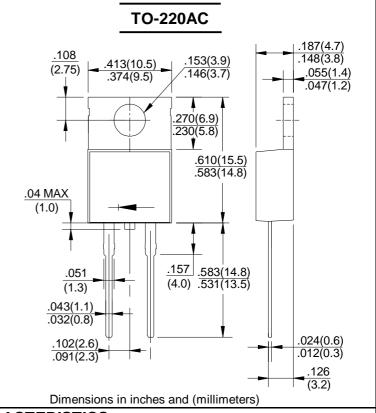
FEATURES

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: TO-220AC molded plasticPolarity: As marked on the bodyWeight: 0.08ounces,2.24 grams

Mounting position :Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SR830T	SR840T	SR850T	SR860T	SR880T	SR8100T	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	40	50	60	80	100	V
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=95 ℃	I(AV)	8.0						Α
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	200						А
Peak Forward Voltage at 8.0A DC (Note1)	VF	0.55 0.60 0.70 0.85				V		
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=100°C	lR	1.0 50						mA
Typical Junction Capacitance (Note2)	C1	450						pF
Typical Thermal Resistance (Note3)	Rejc	3.0						°C/W
Operating Temperature Range	TJ	-55 to +150						$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150						$^{\circ}$

NOTES:1.300us pulse width,2% dudy cycle.

- $2.\mbox{Measured}$ at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case.



