

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR820 THRU SR860

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 60 Volts CURRENT - 8.0 Amperes

FEATURES

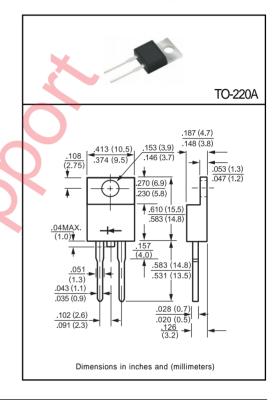
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked * Mounting position: Any * Weight: 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

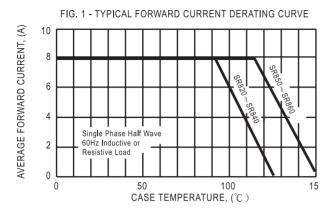


<u> </u>		SYMBOL	SR820	SR830	SR840	SR850	SR860	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature		lo	8.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150					Amps
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	.65 .75				Volts	
Maximum DC Reverse Current	@Tc = 25°C	- IR	5.0					mAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IK IK	50					
Typical Thermal Resistance (Note 1)		RθJC	5.0					°C/W
Typical Junction Capacitance (Note 2)		Cı	700					pF
Operating Temperature Range		TJ	-65 to + 150					۰C
Storage Temperature Range		Тѕтс	-65 to + 150					٥C

NOTES: 1. Thermal Resistance Junction to Case per leg.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Suffix "R" for Reverse Polarity.

RATING AND CHARACTERISTIC CURVES (SR820 THRU SR860)



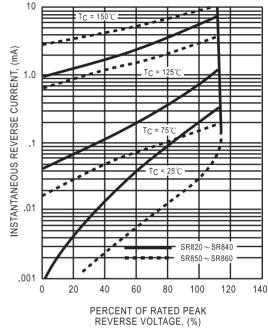


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

