



HITANO ENTERPRISE CORP.

SR820 THRU SR8100

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 8.0 Amperes

FEATURES

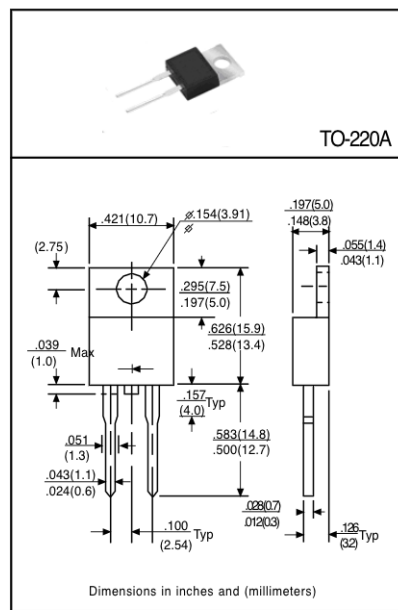
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

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, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



		SYMBOL	SR820	SR830	SR840	SR850	SR860	SR880	SR8100	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature		IO	8.0							Amps
Peak Forward Surge Current IFM(surge): 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	0.65			0.75		0.85		Volts
Maximum DC Reverse Current at	@Tc = 25°C	IR	2.0							mAmps
Rated DC Blocking Voltage	@Tc = 100°C		50							
Typical Thermal Resistance (Note 1)		RθJC	5.0							°C/W
Typical Junction Capacitance (Note 2)		CJ	700							pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to +125							°C

Note : 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.

4. Suffix "F" Stands for "TO-220A" package. (e.g.: SR820E, SR830F,etc)

