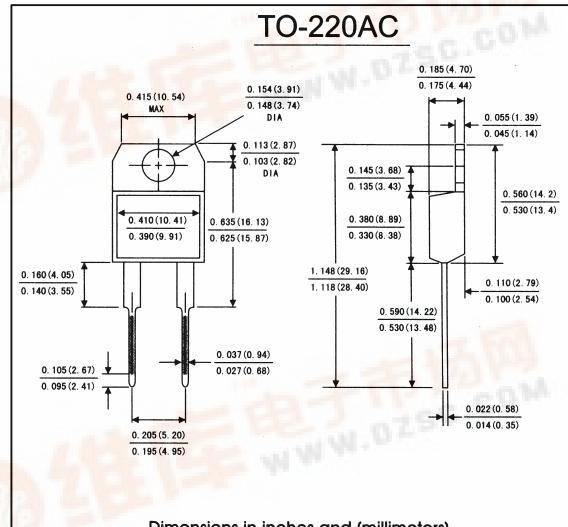


CE**CHENYI ELECTRONICS****SR820 THRU SR8A0(SINGLE CHIP)****SCHOTTKY BARRIER RECTIFIER****Reverse Voltage - 20 to 100 Volts****Forward Current - 8.0Amperes****FEATURES**

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal silicon junction ,majority carrier conduction
- . Guard ring for overvoltage protection
- . Low power loss,high efficiency
- . High current capability ,Low forward voltage drop
- . Single rectifier construction
- . High surge capability
- . For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- . High temperature soldering guaranteed: 250°C/10 seconds
- 0.25"(6.35mm)from case

MECHANICAL DATA

- . **Case:** JEDEC DO-220AC molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** As marked
- . **Mounting Position:** Any
- . **Weight:** 0.08 ounce, 2.24 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave,resistive or inductive)

load. For capacitive load,derate by 20%)

	Symbols	SR820	SR830	SR840	SR850	SR860	SR880	SR8A0	Units
Maximum repetitive peak reverse voltage	VR _{RM}	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VR _M S	14	21	28	35	42	57	71	Volts
Maximum DC blocking voltage	V _D C	20	30	40	50	60	80	100	Volts
Macimum average forward rectified current(see Fig.1)	I _(AV)								Amps
Repetitive peak forward current(square wavr, 20KHz) at T _c =105°C	I _{FRM}								Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}								Amps
Maximum instantaneous forward voltage at 7.5 A(Note 1)	V _F			0.65	0.75	0.8	0.85		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C	IR				1.0			mA
				15			50		
Typeical thermal resistance(Note 2)	R θ_{JC}				2.5				°C/W
Operating junction temperature range	T _J	-65 to +150			-65 to +150				°C
Storage temperature range	T _{STG}				-65 to +150				°C

Notes: 1. Pulse test: 300 μ s pulse width,1% duty cycle

2.Thermal resistance from juntion to case

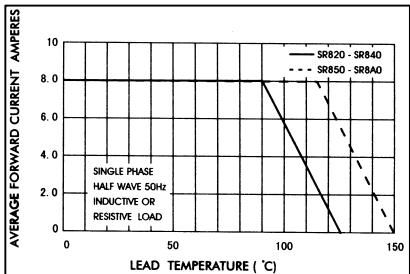
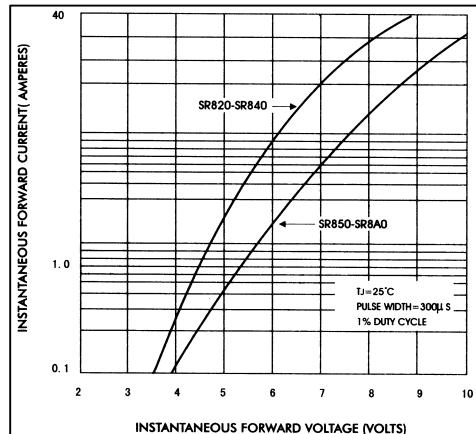
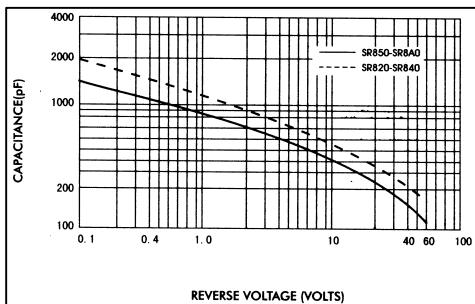
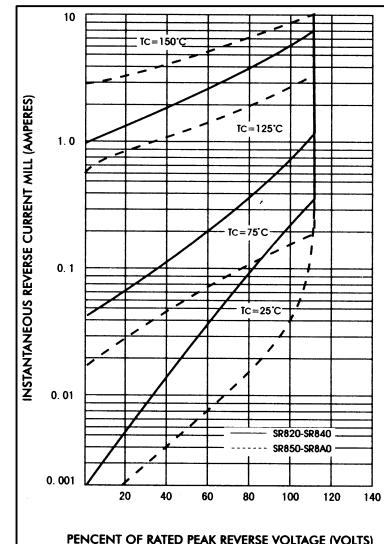
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CHENYI ELECTRONICS

SR820 THRU SR8A0(SINGLE CHIP)**SCHOTTKY BARRIER RECTIFIER**

Reverse Voltage - 20 to 100 Volts

Forward Current - 8.0Amperes

RATINGS AND CHARACTERISTIC CURVES SR820 THRU SR8A0(SINGLE CHIP)**FIG.1-FORWARD CURRENT DERATING CURVE****FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS****FIG.4-TYPICAL JUNCTION CAPACITANCE****FIG.3-TYPICAL REVERSE CHARACTERISTICS****FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**