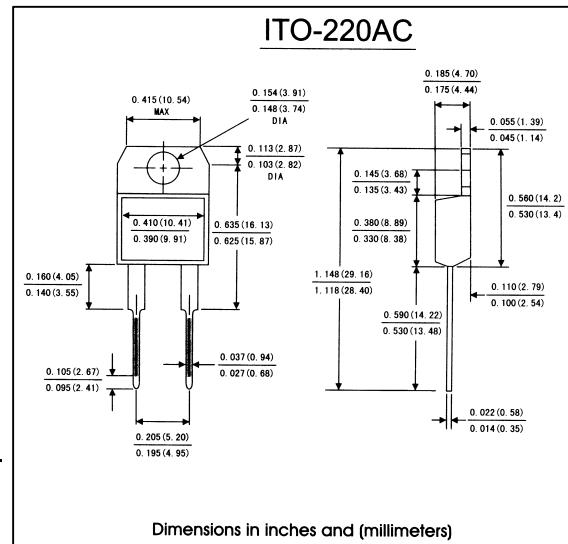


**FEATURES**

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal silicon junction ,majority carriet 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



Dimensions in inches and (millimeters)

**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	SRF820	SRF830	SRF840	SRF850	SRF860	SRF880	SRF8A0	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	57	71	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	Volts
Macimum average forward rectified current(see Fig.1)	I <sub>(AV)</sub>						8.0		Amps
Repetitive peak forward current(square wavr, 20KHz) at T <sub>c</sub> =105°C	I <sub>FRM</sub>					16.0			Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>					150.0			Amps
Maximum instantaneous forward voltage at 7.5 A(Note 1)	V <sub>F</sub>		0.65		0.75		0.8	0.85	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25°C TA=125°C	I <sub>R</sub>			1.0				mA
			15		50				
Typeical thermal resistance(Note 2)	R <sub>θ</sub> <sub>JC</sub>			5.0					°C/W
Operating junction temperature range	T <sub>J</sub>	-65 to +125		-65 to +150					°C
storage temperature range	T <sub>STG</sub>			-65 to +150					°C

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

2.Thermal resistance from juntion to case

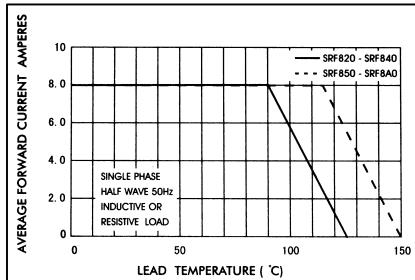
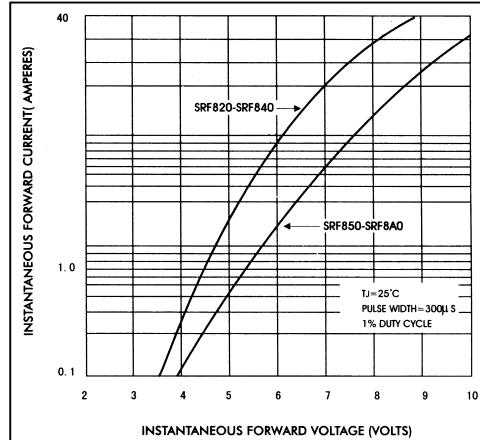
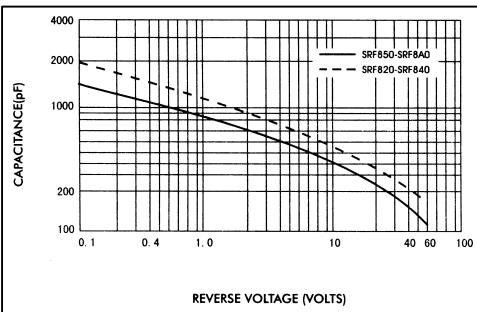
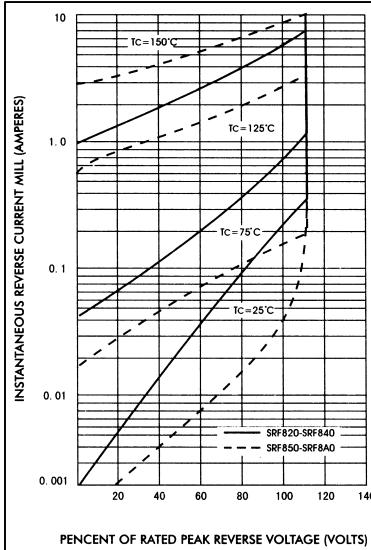
**CE**

CHENYI ELECTRONICS

**SRF820 THRU SRF8A0(SINGLE CHIP)****SCHOTTKY BARRIER RECTIFIER**

Reverse Voltage - 20 to 100 Volts

Forward Current - 8.0 Amperes

**RATINGS AND CHARACTERISTIC CURVES SRF820 THRU SRF8A0(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**