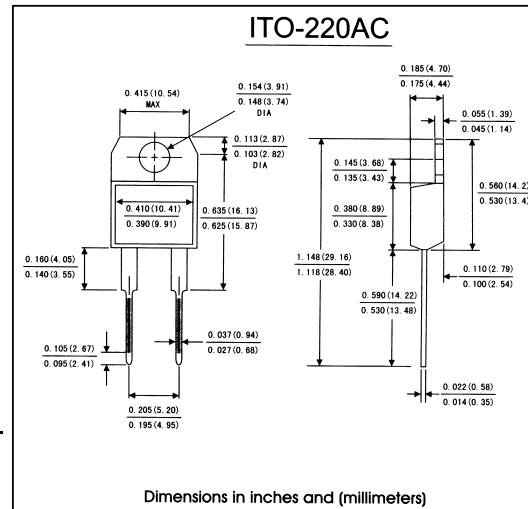


FEATURES

- . 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



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 _{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 57 | 71 | Volts |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum average forward rectified current(see Fig.1) | I _(AV) | | | | | 8.0 | | | Amps |
| Repetitive peak forward current(square wavr, 20KHz) at T _c =105°C | I _{FRM} | | | | 16.0 | | | | Amps |
| Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | | | | 150.0 | | | | 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 TA=125°C | IR | | | 1.0 | | | | mA |
| | | | 15 | | 50 | | | | |
| Typecal thermal resistance(Note 2) | R _θ _{JC} | | | 5.0 | | | | | °C/W |
| Operating junction temperature range | T _J | | -65 to +125 | | -65 to +150 | | | | °C |
| storage temperature range | T _{TSG} | | | -65 to +150 | | | | | °C |

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

2.Thermal resistance from juntion to case

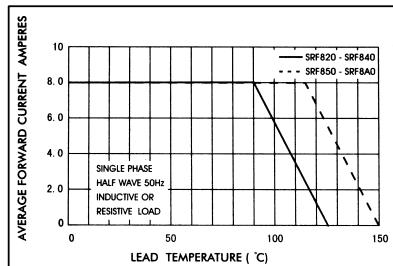
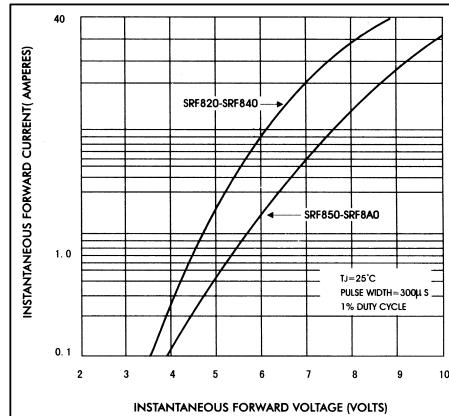
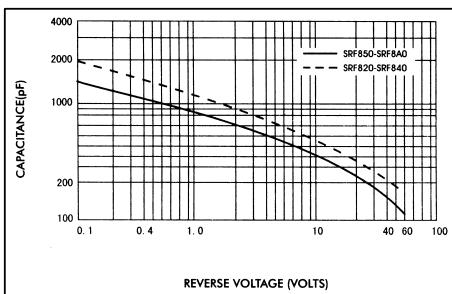
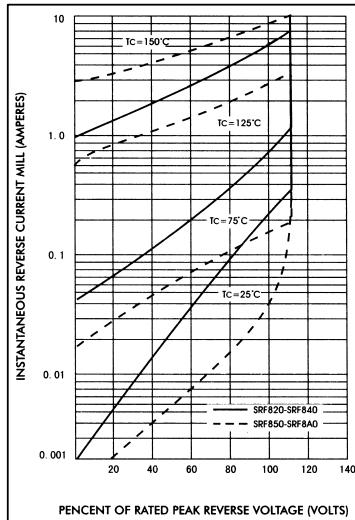
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CHENYI ELECTRONICS

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

Reverse Voltage - 20 to 100 Volts

Forward Current - 8.0Amperes

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**