



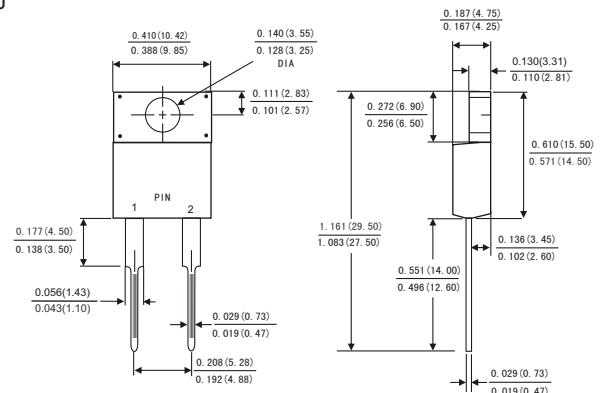
FEATURES

- 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:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

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

ITO-220AC



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	SRF 520	SRF 530	SRF 540	SRF 550	SRF 560	SRF 580	SRF 5100	SRF 5150	SRF 5200	Units						
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts						
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	57	71	105	140	Volts						
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts						
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	5.0								Amps							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T _J)	I _{FSM}	150.0								Amps							
Maximum instantaneous forward voltage at 5.0 A(Note 1)	V _F	0. 60		0.75		0.85		0.90		0.95	Volts						
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I _R	T _A =25°C	0.2								mA						
T _A =100°C			50		25												
Typical junction capacitance(Note 3)	C _J	500		400								pF					
Typical thermal resistance (Note 2)	R _{θJA} R _{θJL}	25.0 8.0								°C/W							
Operating junction temperature range	T _J	-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 junction to lead vertical PC.B. mounted , 0.375"(9.5mm)lead length

3.Measured at 1MHz and reverse voltage of 4.0volts



星合电子
XINGHE ELECTRONICS

SRF520 THRU SRF5200(SINGLE CHIP)

SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 20 to 200 Volts
Forward Current - 5.0 Amperes

FIG.1-FORWARD CURRENT DERATING CURVE

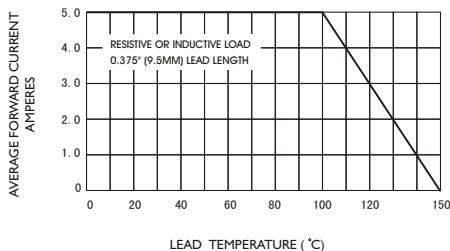


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

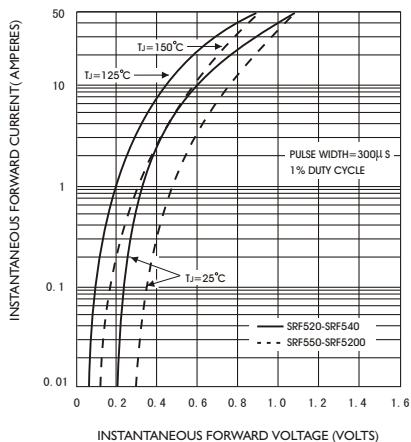


FIG.5-TYPICAL JUNCTION CAPACITANCE

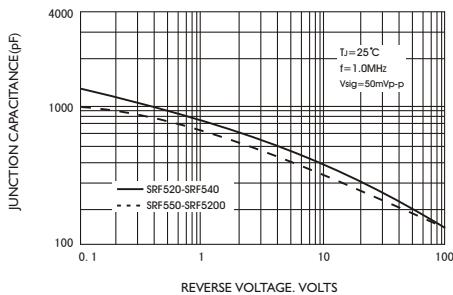


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

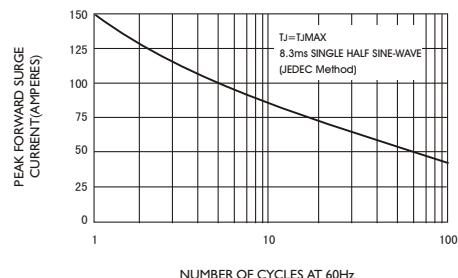


FIG.4-TYPICAL REVERSE CHARACTERISTICS

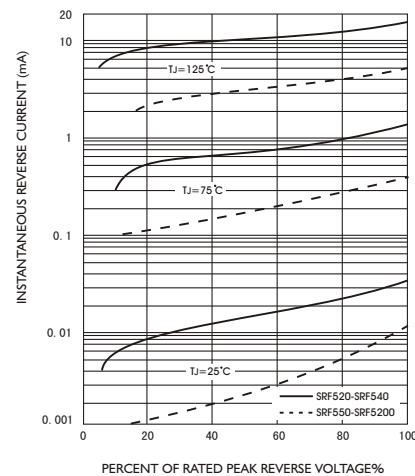


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

