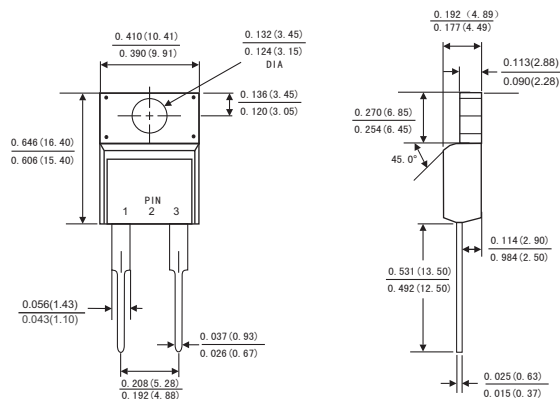


FEATURES

- 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 2011/65/EU



ITO-220AC



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

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%.)

Parameter		Symbols	SRF 820	SRF 830	SRF 840	SRF 860	SRF 8100	SRF 8150	SRF 8200	Units
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	60	100	150	200	Volts
Maximum RMS voltage		V _{RMS}	14	21	28	42	70	105	140	Volts
Maximum DC blocking voltage		V _{DC}	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current (see Fig.1)		I(AV)	8.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 8.0 A(Notes 1)		V _F	0.60			0.75	0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	T _A =25°C	I _R	200				50			μA
	T _A =100°C		5				-			mA
	T _A =125°C		-				5			
Typical thermal resistance (Notes 2)		R _{θJC}	2.5							°C/W
Operating junction temperature range		T _J	-55 to+150							°C
Storage temperature range		T _{STG}	-55 to+150							°C

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

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SRF820 THRU SRF8200

FIG.1-FORWARD CURRENT DERATING CURVE

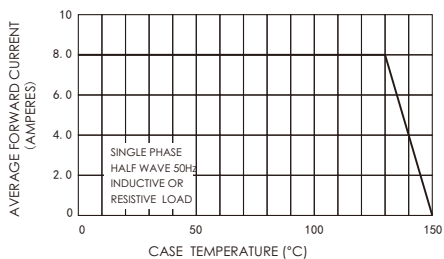


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

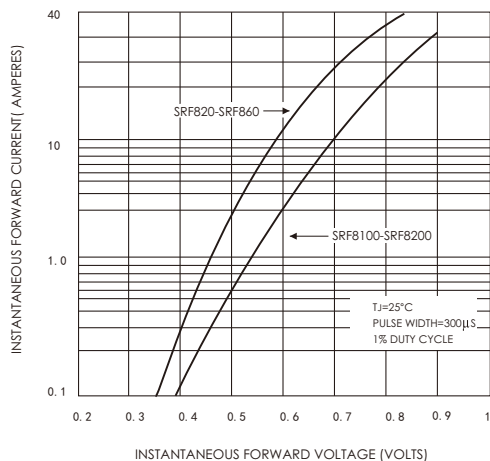


FIG.4-TYPICAL JUNCTION CAPACITANCE

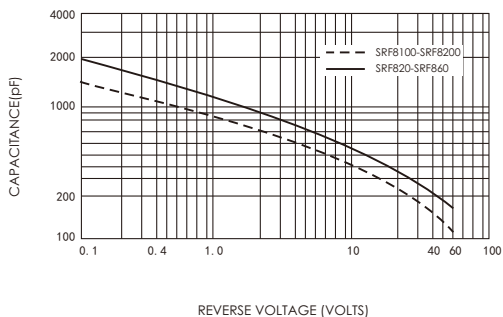


FIG.3-TYPICAL REVERSE CHARACTERISTICS

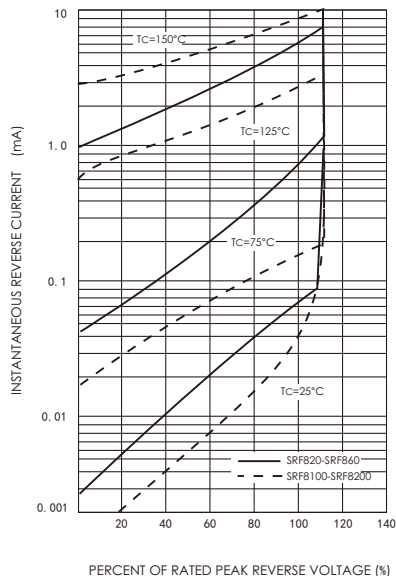
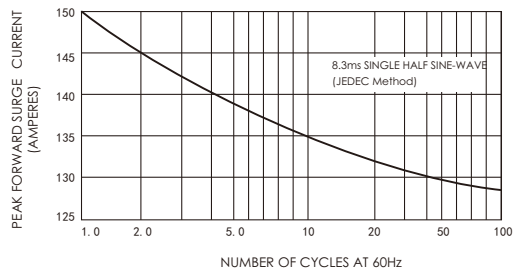


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



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