

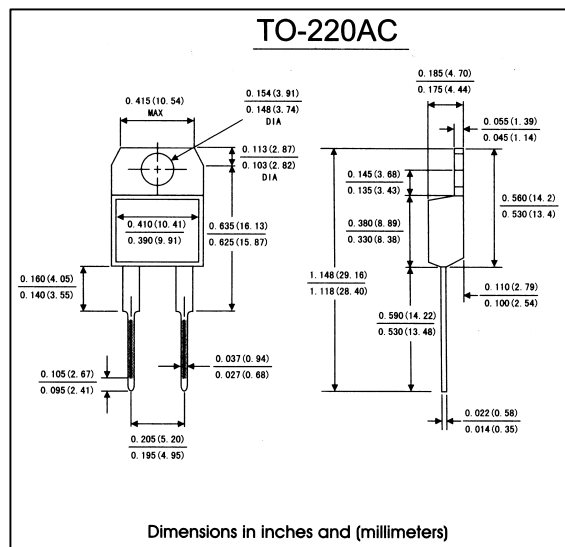
FEATURES

- 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	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	57	71	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	Volts
Macimum average forward rectified current(see Fig.1)	I(AV)	8.0							Amps
Repetitive peak forward current(square wavr, 20KHz) at Tc=105℃	IFRM	16.0							Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	IFSM	150.0							Amps
Maximum instantaneous forward voltage at 7.5 A(Note 1)		VF	0.65		0.75		0.8	0.85	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25℃	IR	1.0						mA
	TA=125℃		15		50				
Typeical thermal resistance(Note 2)		R θJC	2.5						℃/W
Operating junction temperature range		TJ	-65 to +150		-65 to +150				℃
storage temperature range		TSTG	-65 to +150						℃

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

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR820 THRU SR8A0(SINGLE CHIP)

FIG.1-FORWARD CURRENT DERATING CURVE

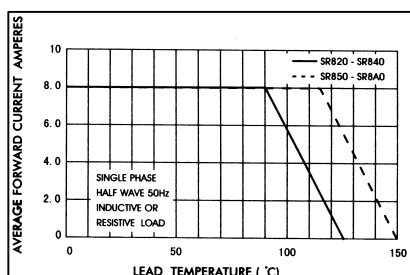


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

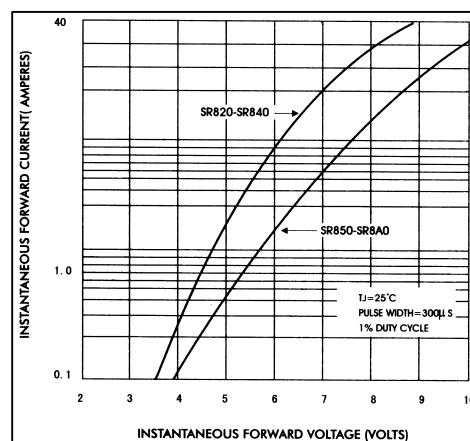


FIG.4-TYPICAL JUNCTION CAPACITANCE

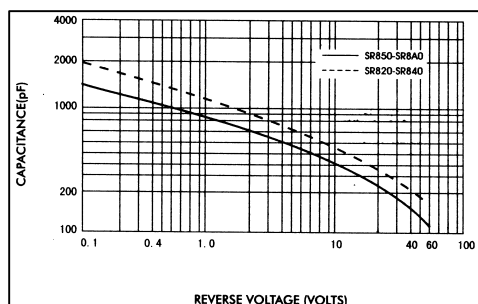


FIG.3-TYPICAL REVERSE CHARACTERISTICS

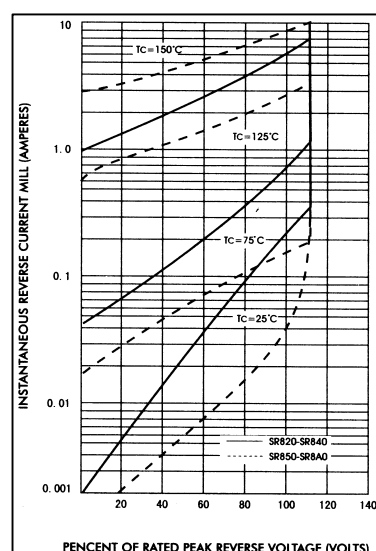


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

