SCHOTTKY BARRIER RECTIFIER

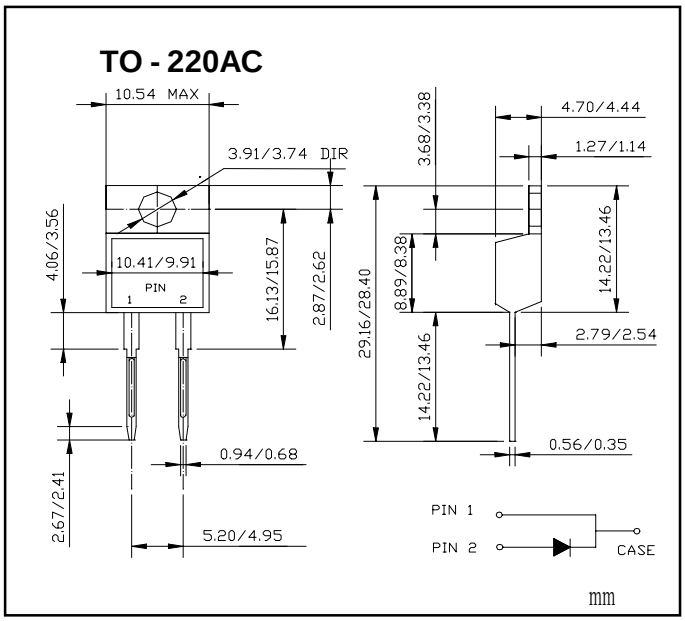
VOLTAGE RANGE: 20 --- 100 V
CURRENT: 8.0A

FEATURES

- ◇ Metal-Semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ Low forward voltage drop,low switching losses
- ◇ High surge capability
- ◇ For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case:JEDEC TO--220AC,molded plastic
- ◇ Terminals: Leads solderable per MIL- STD-750,Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.078ounces,2.24 grams
- ◇ Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		SR820	SR830	SR840	SR850	SR860	SR880	SR8A0	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current (see fig.1)	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	150.0							A
Maximum instantaneous forward voltage @ 8.0A (Note 1)	V_F	0.65			0.75		0.8	0.85	V
Maximum reverse current @T_A=25℃	I_R	1.0							mA
at rated DC blocking voltage @T_A=100℃		15.0			50.0				
Typical thermal resistance (Note2)	$R_{\theta JA}$	3							℃/W
Operating junction temperature range	T_J	- 55 ---- + 125			- 55 ---- + 150				℃
Storage temperature range	T_{STG}	- 55 ---- +150							℃

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.
2.Thermal resistance junction to ambient

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FIG.1 -- FORWARD CURRENT DERATING CURVE

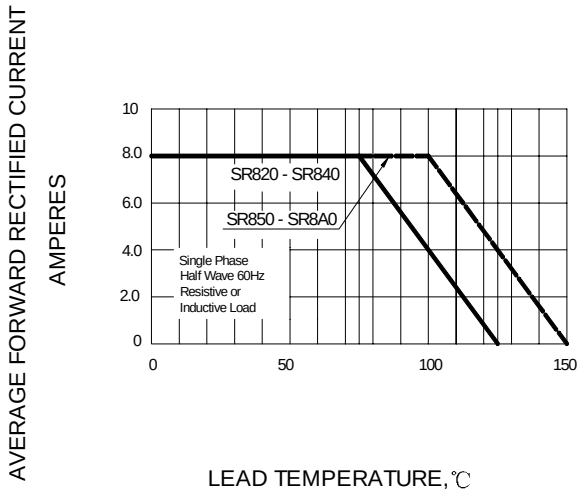

FIG.2 -- PEAK FORWARD SURGE CURRENT

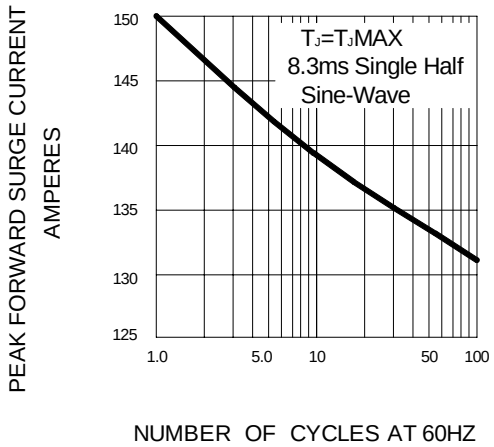

FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS