

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 60 V
CURRENT: 3.0 A

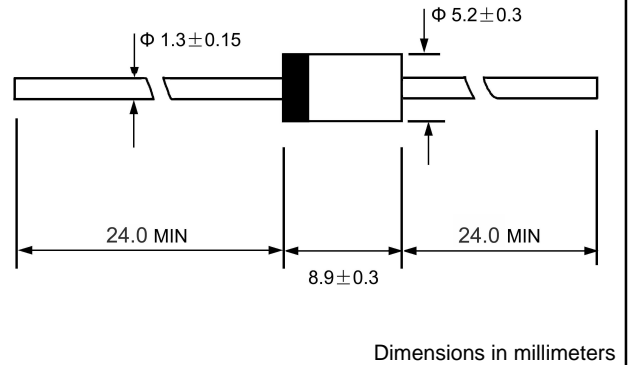
FEATURES

- ◇ 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 DO-27, molded plastic
- ◇ Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.041 unces, 1.15 grams
- ◇ Mounting position: Any

DO - 27



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

		SR3L60	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	3.0	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	80	A
Maximum instantaneous forward voltage @ 3.0A (Note1)	V_F	0.62	V
Maximum reverse current @ $T_J = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_J = 100^\circ\text{C}$	I_R	1.5 10	mA
Typical thermal resistance (Note2)	$R_{\theta JA}$	40	$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	- 55 ---- + 150	$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 ---- + 150	$^\circ\text{C}$

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

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2. Thermal resistance junction to ambient, without fin or P.C.Board.

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

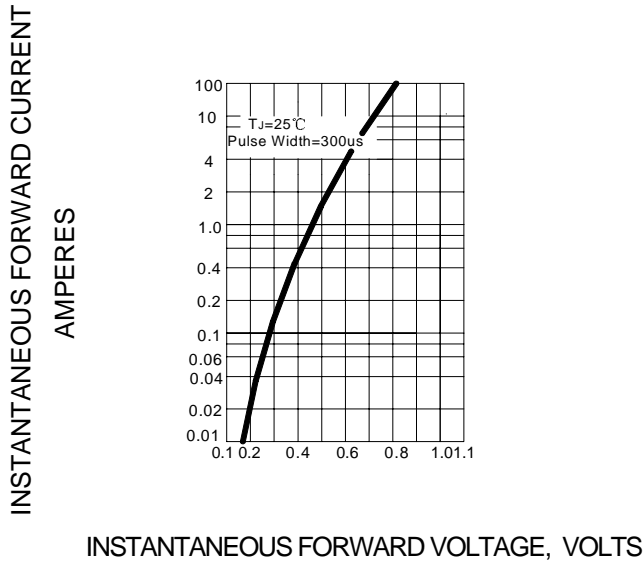


FIG.2- FORWARD DERATING CURVE

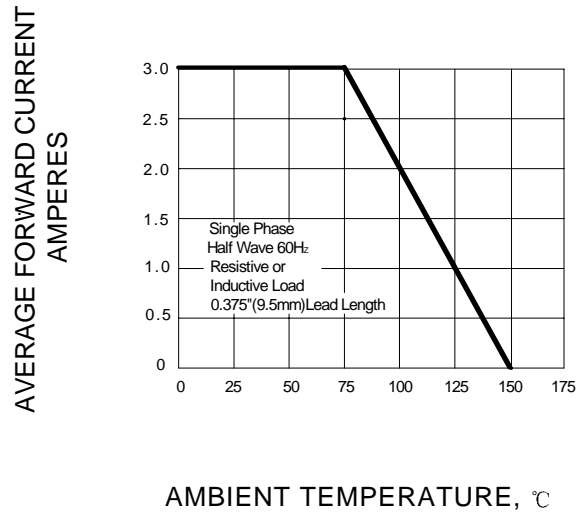


FIG.3- PEAK FORWARD SURGE CURRENT

