

### PLASTIC SILICON RECTIFIER

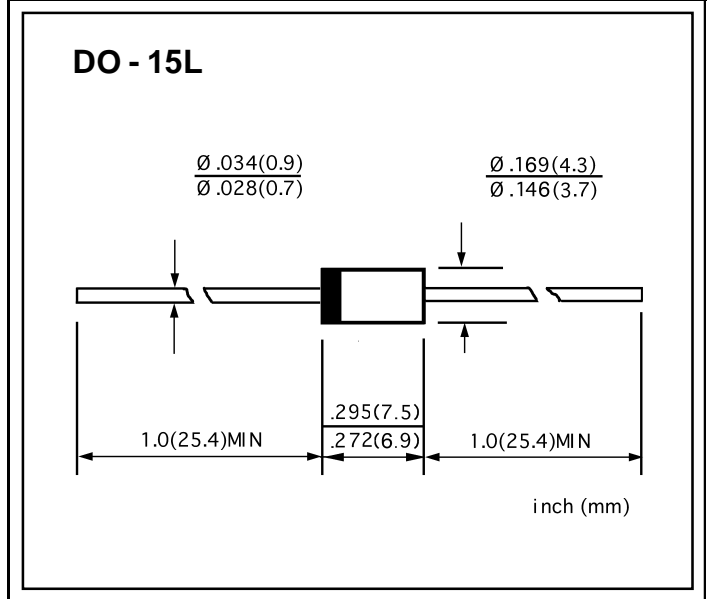
VOLTAGE RANGE: 200 --- 1000 V  
CURRENT: 1.2 A

#### FEATURES

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

#### MECHANICAL DATA

- ◇ Case:JEDEC DO--15L,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.017 ounces,0.48 grams
- ◇ Mounting position: Any



#### 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%.

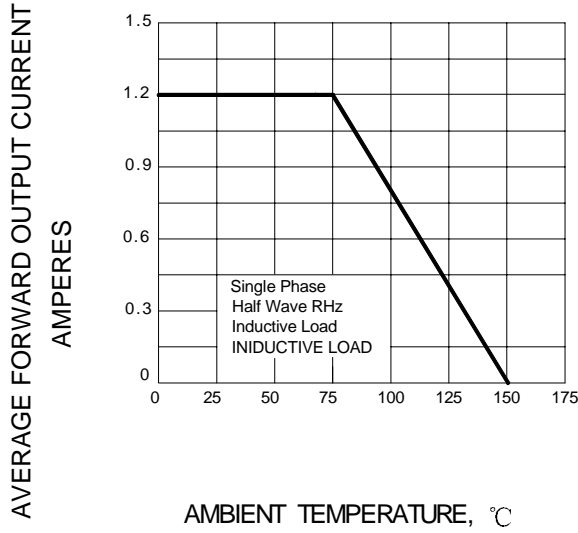
		RM2Z	RM2	RM2A	RM2B	RM2C	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum average forward rectified current 9.5mm lead lengths, @ $T_A=75^\circ C$	$I_{(AV)}$	1.2					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	$I_{FSM}$	100					A
Maximum instantaneous forward voltage at 1.2 A	$V_F$	0.91					V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	10.0 50					$\mu A$
Typical junction capacitance (Note1)	$C_J$	30					pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	50					$^\circ C/W$
Operating junction temperature range	$T_J$	- 55 ---- + 150					$^\circ C$
Storage temperature range	$T_{STG}$	- 55 ---- + 150					$^\circ C$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

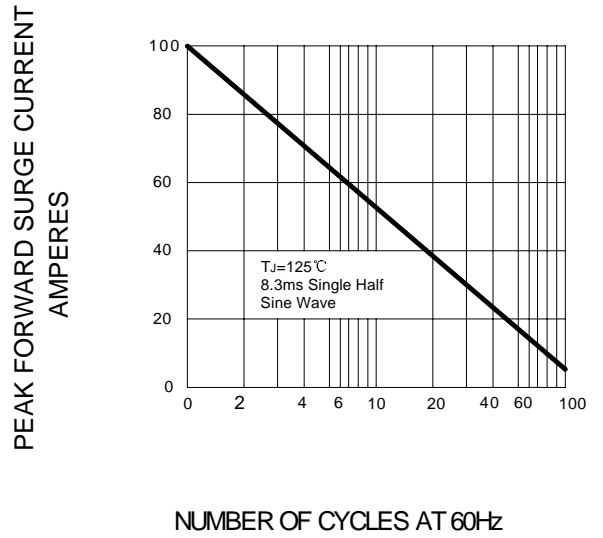
2. Thermal resistance from junction to ambient.

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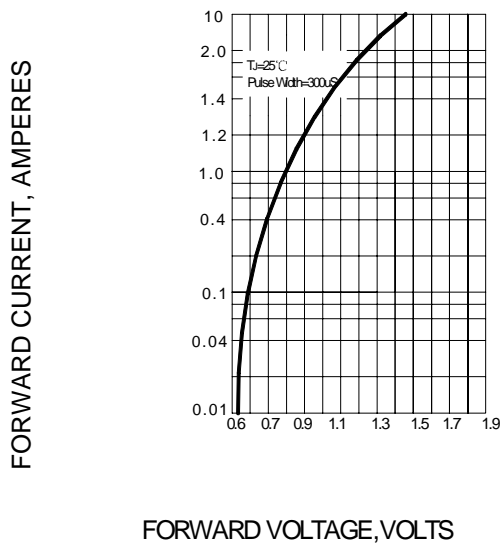
**FIG.1 – FORWARD DERATING CURVE**



**FIG.2 –PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**

