

**RL257**

**2.5AMPS . SILICON RECTIFIER**

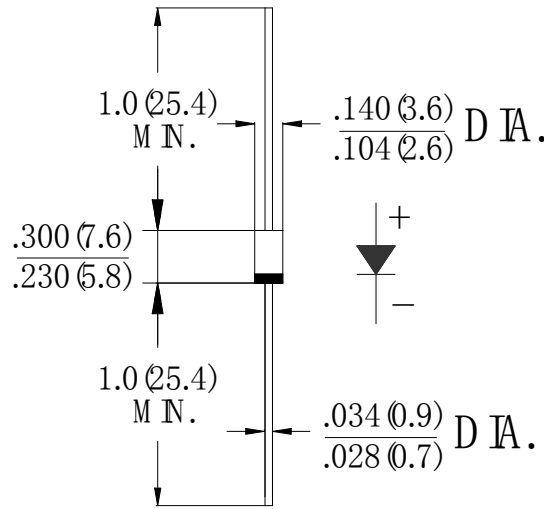
**FEATURE**

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed  
260°C /10sec/0.375" lead length at 5 lbs tension

**MECHANICAL DATA**

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any

**DO-15**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number	SYM BOL	RL257	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length	$I_{F(AV)}$	2.5	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	80.0	A
Maximum Forward Voltage at 2.5A DC	$V_F$	1.0	V
Maximum DC Reverse Current @ $T_J = 25^\circ C$ at rated DC blocking voltage @ $T_J = 100^\circ C$	$I_R$	5.0 100.0	$\mu A$
Typical Junction Capacitance (Note 1)	$C_j$	30	pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50	$^\circ C / W$
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ C$
Operation Junction Temperature	$T_J$	-55 to +150	$^\circ C$

**Note:**

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted

RATING AND CHARACTERISTIC CURVES (RL257)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

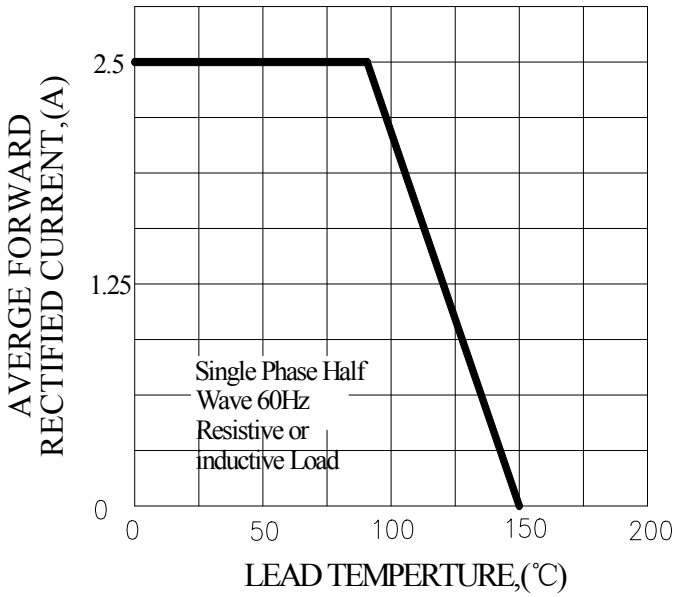


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

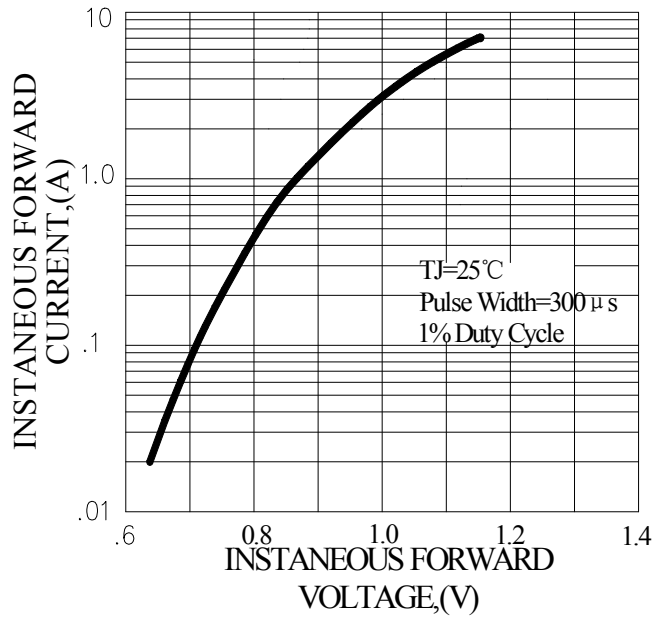


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

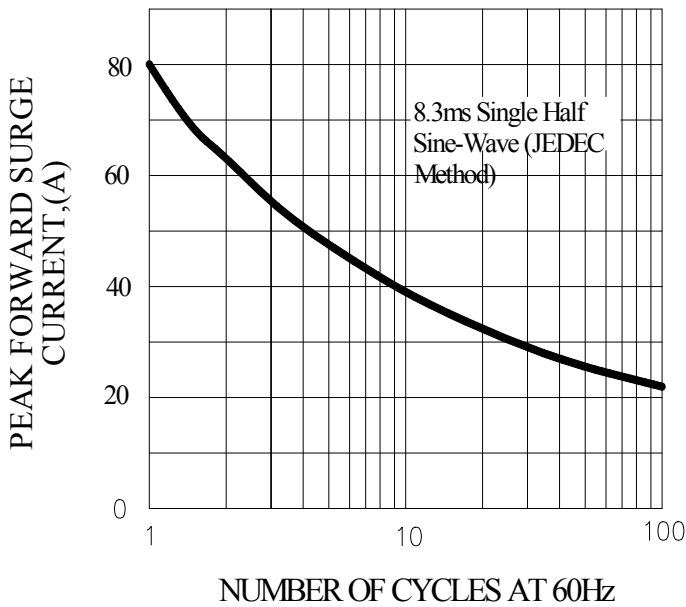
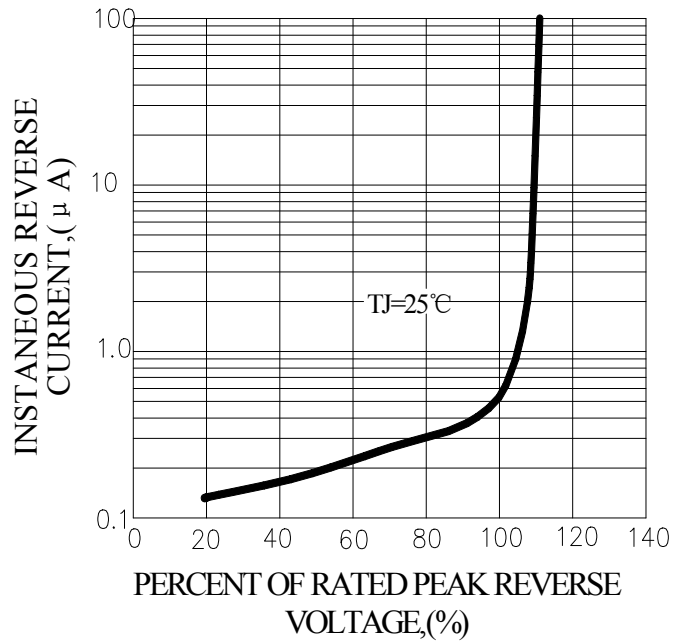


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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