



## RL201 THRU RL207

### 2.0AMPS . SILICON RECTIFIER

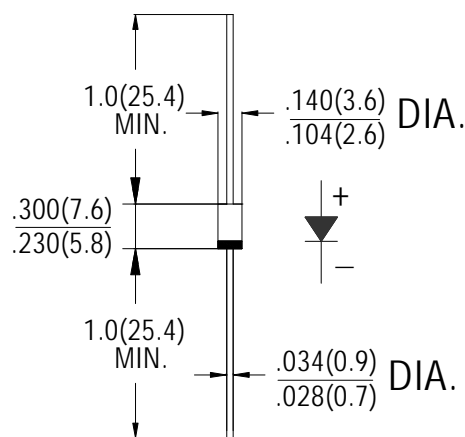
#### FEATURE

- . High current capability,
  - . Low forward voltage drop
  - . Low power loss, high efficiency
  - . High surge capability
  - . High temperature soldering guaranteed
- 260°C / 1 0sec/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

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYM BOL	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	60.0							A
Maximum Forward Voltage at 2.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current at rated DC blocking voltage	$I_R$	5.0 50.0							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_j$	30							pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	50							$^\circ\text{C}/\text{W}$
Storage Temperature	$T_{STG}$	-55 to +150							$^\circ\text{C}$
Operation Junction Temperature	$T_J$	-55 to +125							$^\circ\text{C}$

#### 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,

**RATING AND CHARACTERISTIC CURVES RL201 THRU RL207**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

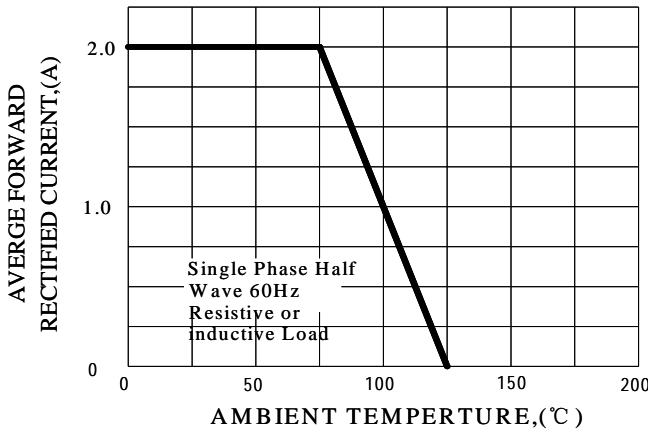


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

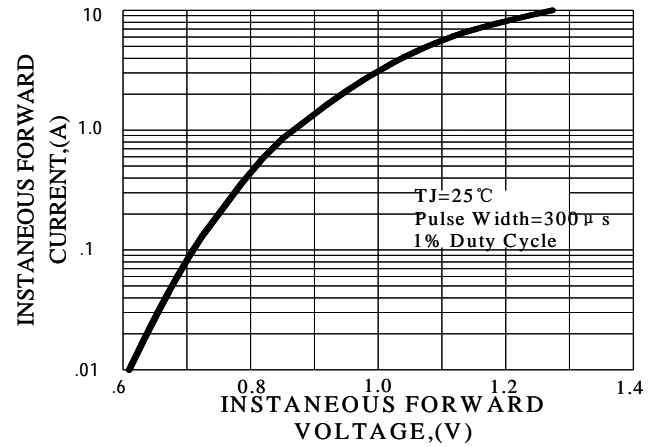


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

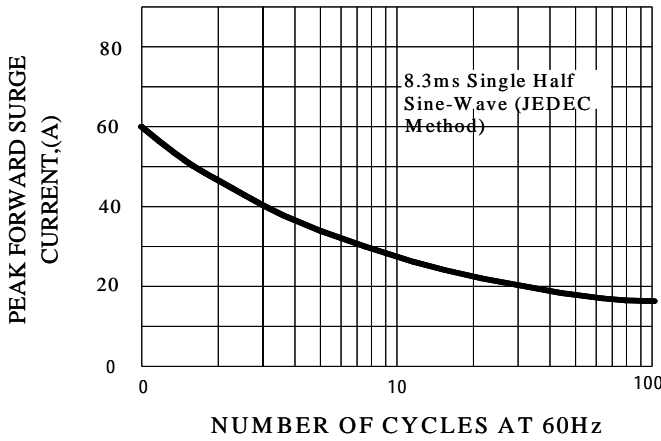


FIG.4-TYPICAL REVERSE CHARACTERISTICS

