

### Features

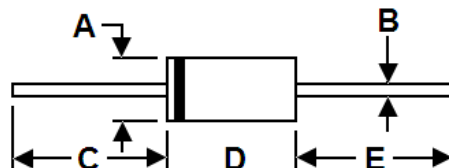
- \* Low Forward Voltage Drop
- \* High Current Capability
- \* High Reliability
- \* High Surge Current Capability



**RoHS**  
COMPLIANT

### Package Outline Dimensions

DO-15:



| DIM. | Unit (mm) |     | Unit (inch) |       |
|------|-----------|-----|-------------|-------|
|      | Min       | Max | Min         | Max   |
| A    | 2.6       | 3.6 | 0.102       | 0.142 |
| B    | 0.7       | 0.9 | 0.027       | 0.035 |
| C    | 25.4      | -   | 1.0         | -     |
| D    | 5.8       | 7.6 | 0.228       | 0.300 |
| E    | 25.4      | -   | 1.0         | -     |

### Mechanical Data

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting Position: Any

### Maximum Ratings and Electrical Characteristics

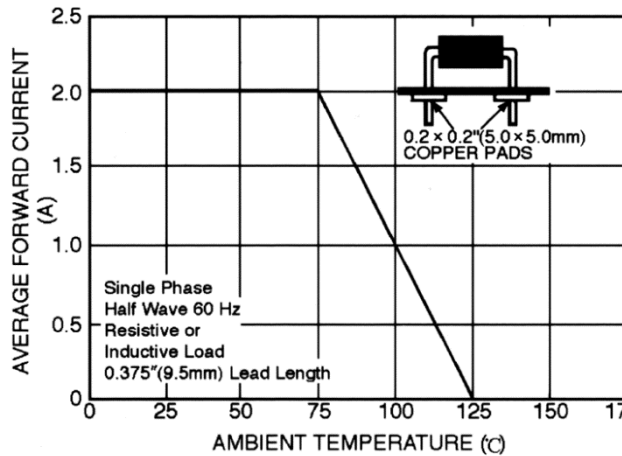
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Type Number                                                                                           | Symbol          | RL 201                    | RL 202 | RL 203 | RL 204 | RL 205 | RL 206 | RL 207 | Unit          |
|-------------------------------------------------------------------------------------------------------|-----------------|---------------------------|--------|--------|--------|--------|--------|--------|---------------|
| 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 D.C Blocking Voltage                                                                          | $V_{DC}$        | 50                        | 100    | 200    | 400    | 600    | 800    | 1000   | V             |
| Maximum Average Forward Rectified Current<br>.375" (9.5mm) Lead Length @ $T_A=75^{\circ}C$            | $I_{F(AV)}$     | 2.0                       |        |        |        |        |        |        | A             |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)      | $I_{FSM}$       | 60                        |        |        |        |        |        |        | A             |
| Maximum Instantaneous Forward Voltage at 2.0A                                                         | $V_F$           | 1.0                       |        |        |        |        |        |        | V             |
| Maximum D.C Reverse Current @ $T_A=25^{\circ}C$<br>at Rated D.C Blocking Voltage @ $T_A=100^{\circ}C$ | $I_R$           | 5.0<br>50.0               |        |        |        |        |        |        | $\mu A$       |
| Typical Junction Capacitance(Note1)                                                                   | $C_J$           | 35                        |        |        |        |        |        |        | pF            |
| Typical Thermal Resistance(Note2)                                                                     | $R_{\theta JA}$ | 50                        |        |        |        |        |        |        | $^{\circ}C/W$ |
| Operating and Storage Temperature Range                                                               | $T_J/T_{STG}$   | -55 to +125 / -55 to +150 |        |        |        |        |        |        | $^{\circ}C$   |

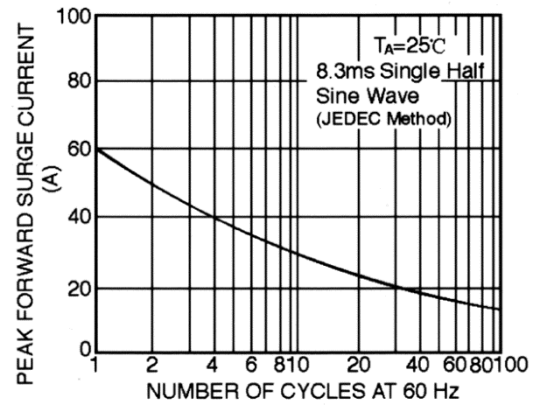
Note:1、Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C. 2、Thermal Resistance From Junction to Ambient 0.375"(9.5mm) Lead Length.

## Ratings and Characteristic Curves

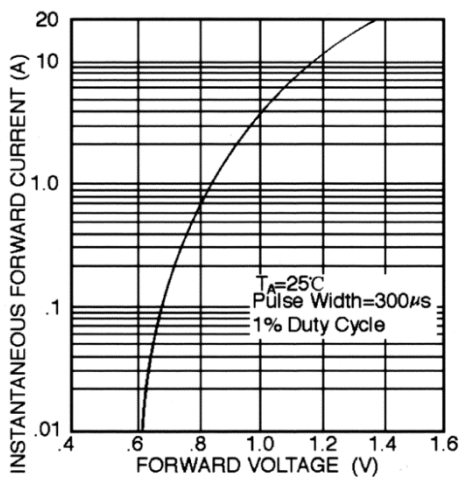
**FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE**



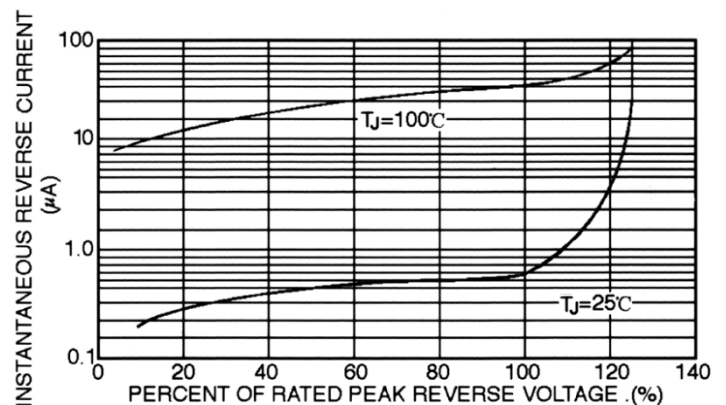
**FIG. 2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT**



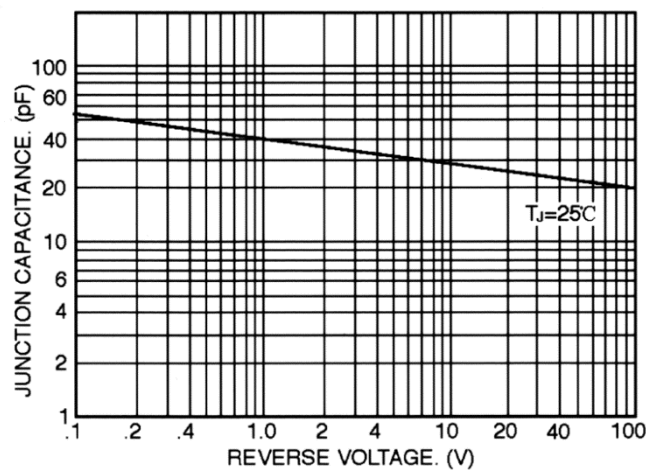
**FIG. 3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG. 4 – TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 – TYPICAL JUNCTION CAPACITANCE**





**RL201 THRU RL207**  
**2.0 Amps. Silicon Rectifiers**

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**Ordering Information**

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| Part No.    | Package | Packing           |
|-------------|---------|-------------------|
| RL201~RL207 | DO-15   | 2K/AMMO box       |
| RL201~RL207 | DO-15   | 3K/AMMO box       |
| RL201~RL207 | DO-15   | 4K/13" Paper reel |
| RL201~RL207 | DO-15   | 0.5K/Bulk packing |