

**2.0 A Plastic Silicon Rectifier**  
Rectifier Reverse Voltage 50 to 1000V



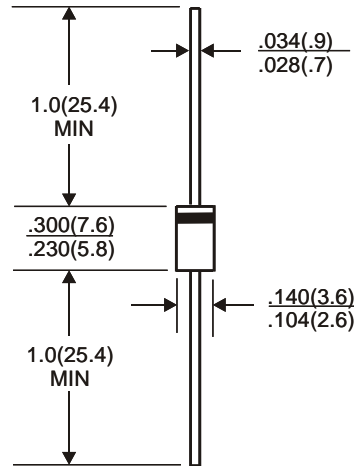
**Features**

- Diffused junction
- High current capability and low Forward Voltage Drop
- Surge overload rating to 70A peak
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

**Mechanical Data**

Case: Molded plastic  
 Terminals: Solder plated solderable per MIL-STD-202, Method 208  
 Polarity: Cathode band  
 Mounting Position: Any  
 Weight: 0.4grams (approx)

DO-15



All dimensions inches and (millimeters)

**Maximum Ratings & Thermal Characteristics**

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
 For Capacitive load derate current by 20%.

| Parameter   | Symbol   | RL201        | RL202 | RL203 | RL204 | RL205 | RL206 | RL207 | unit |
|---|----------|--------------|-------|-------|-------|-------|-------|-------|------|
| Maximum repetitive peak reverse voltage   | VRRM     | 50           | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum RMS bridge input voltage  | VRMS     | 35           | 70    | 140   | 280   | 420   | 560   | 700   | V    |
| Maximum DC blocking voltage   | VDC      | 50           | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum average forward rectified output current at TA=75°C                           | IF(AV)   | 2.0          |       |       |       |       |       |       | A    |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | IFSM     | 70           |       |       |       |       |       |       | A    |
| Typical thermal resistance  | ReJA     | 25           |       |       |       |       |       |       | °C/W |
| Typical junction capacitance per element  | Cj       | 20           |       |       |       |       |       |       | pF   |
| Operating junction and storage temperature range                                      | TJ, TSTG | -55 to + 175 |       |       |       |       |       |       | °C   |

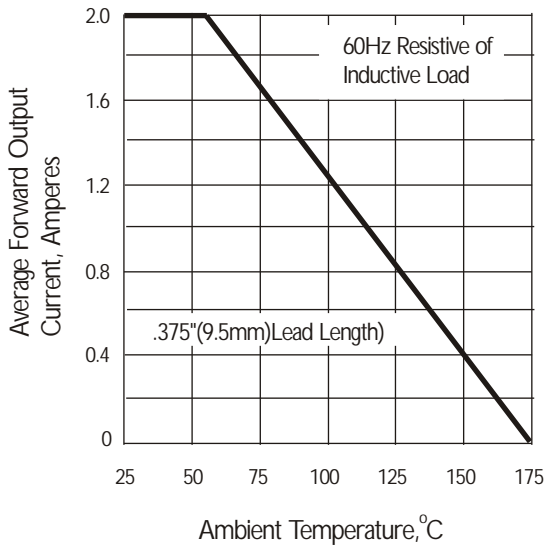
**Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

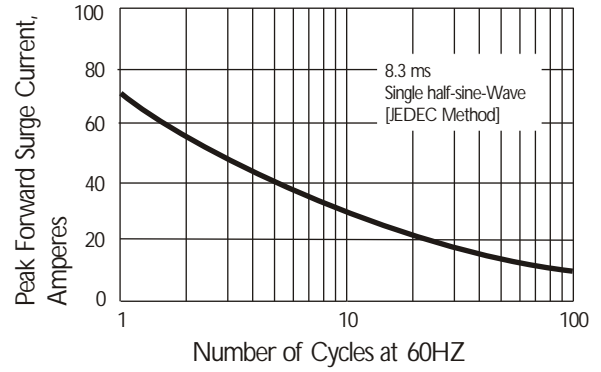
| Parameter  | Symbol | RL201       | RL202 | RL203 | RL204 | RL205 | RL206 | RL207 | Unit |
|--|--------|-------------|-------|-------|-------|-------|-------|-------|------|
| Maximum instantaneous forward voltage drop per leg at 2.0A                             | VF     | 1.1         |       |       |       |       |       |       | V    |
| Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =100°C | IR     | 5.0<br>50.0 |       |       |       |       |       |       | μA   |

# Rating and Characteristic Curves ( TA=25°C Unless otherwise noted ) RL201 thru RL207

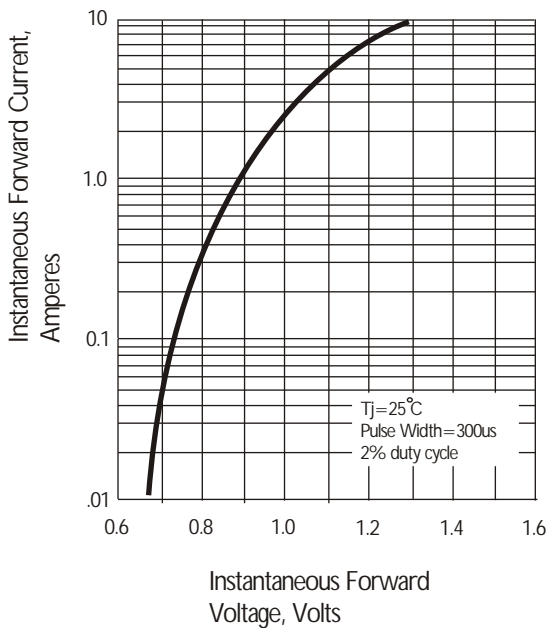
**Fig. 1 Derating Curve for Output Rectified Current**



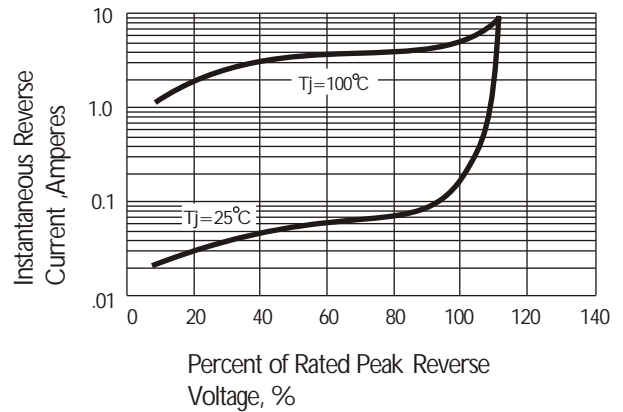
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristics**



**Fig. 5 Typical Junction Capacitance**

