



RL201 - RL207

SILICON RECTIFIER

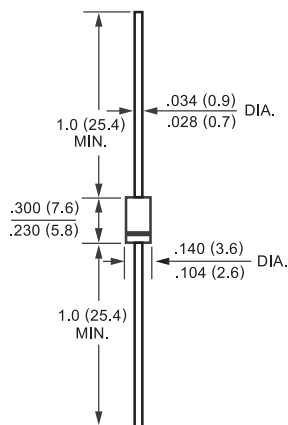
VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.38 gram

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability



Dimensions in inches and (millimeters)

DO-15



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacity load, derate current by 20%

| PARAMETER | | SYMBOL | RL201 | RL202 | RL203 | RL204 | RL205 | RL206 | RL207 | UNITS |
|--|------------------------|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at T _A = 75°C | | I _O | 2.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method) | | I _{FSM} | 70 | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 2.0A DC | | V _F | 1.1 | | | | | | | Volts |
| Maximum DC Reverse Current at | @T _A = 25°C | I _R | 5.0 | | | | | | | uAmps |
| Rated DC Blocking Voltage | T _A = 25°C | | 500 | | | | | | | |
| Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at T _L = 75°C | | | | 30 | | | | | | |
| Typical Junction Capacitance (Note) | | C _J | 20 | | | | | | | pF |
| Typical Thermal Resistance | | R θ _{JA} | 40 | | | | | | | °C/W |
| Operating and Storage Temperature Range | | T _J ,T _{STG} | -65 to +175 | | | | | | | °C |

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts



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RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

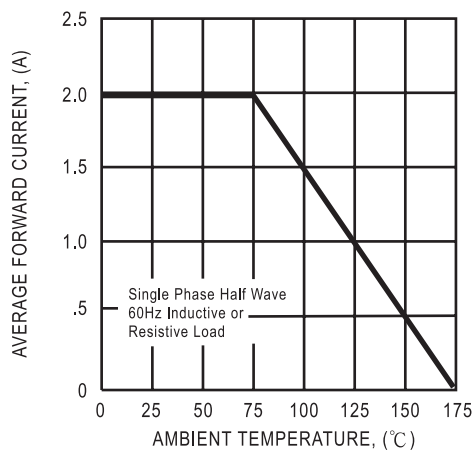


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

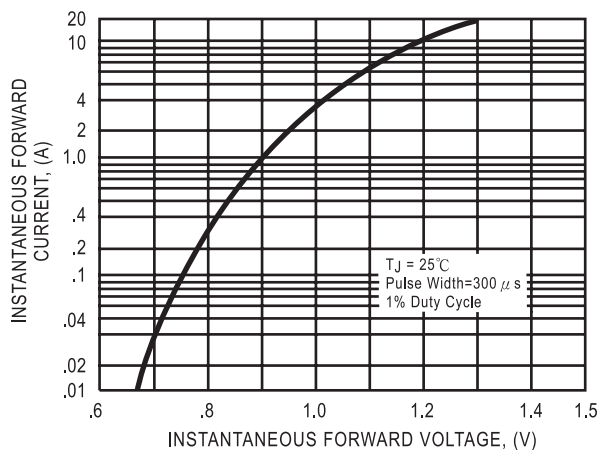


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

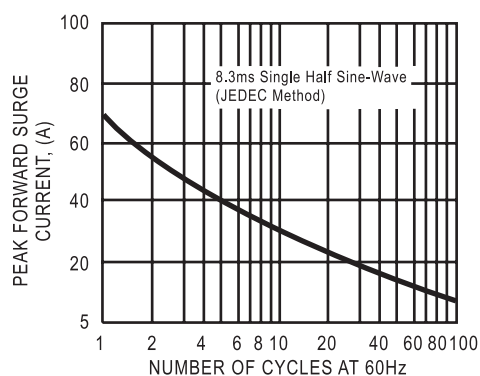


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

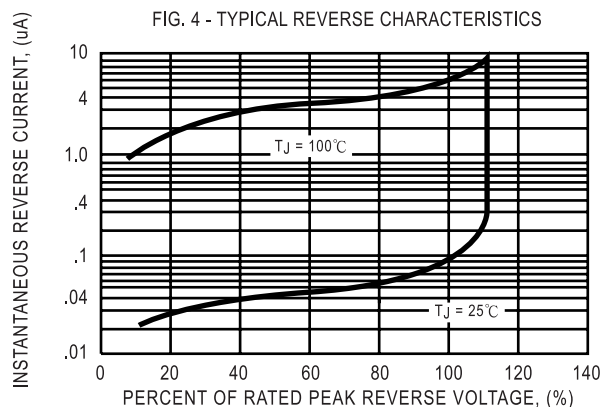
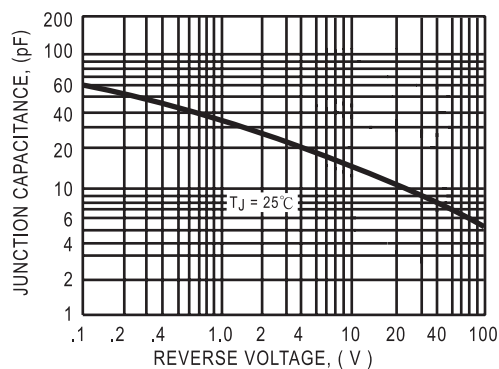


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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