



GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

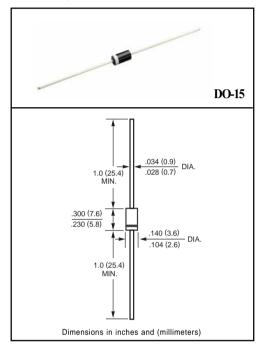
- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | RL201G | RL202G | RL203G | RL204G | RL205G | RL206G | RL207G | UNITS |
|---|----------|--------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | Vrms | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at TA = 75°C | lo | 2.0 | | | | | | | Amps |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 70 | | | | | | | Amps |
| Typical Junction Capacitance (Note) | CJ | 20 | | | | | | | рF |
| Typical Thermal Resistance | RθJA | 40 | | | | | | | °C/W |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to + 175 | | | | | | | °C |

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | RL201G | RL202G | RL203G | RL204G | RL205G | RL206G | RL207G | UNITS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 2.0A DC | | VF | 1.1 | | | | | | | Volts |
| Maximum DC Reverse Current | @TA = 25°C | | 5.0 | | | | | | | uAmps |
| at Rated DC Blocking Voltage | @TA = 100°C | 10 | 50 | | | | | | | |
| Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75° C | | IR | 30 | | | | | | | uAmps |

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

RATING AND CHARACTERISTIC CURVES (RL201G THRU RL207G)

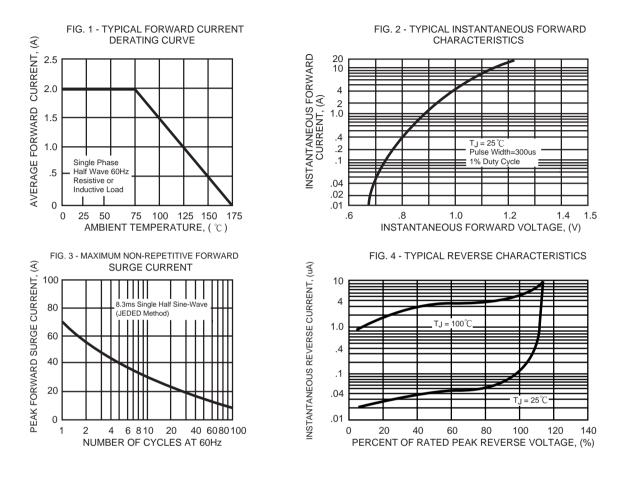


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

