

FEATURES

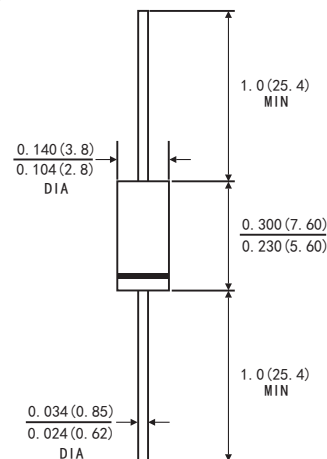
- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High surge current capability
- 2.0A operation at $T_L=75^\circ\text{C}$ with no thermal runaway
- Low reverse leakage
- High temperature soldering guaranteed: $260^\circ\text{C}/10$ seconds,0.375"(9.5mm) lead length,5lbs.(2.3kg)tension
- Component in accordance to RoHs 2011/65/EU

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014ounce, 0.39 gram



DO-15



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| | | Symbols | RL 201 | RL 202 | RL 203 | RL 204 | RL 205 | RL 206 | RL 207 | Units |
|--|----------|------------|--------------------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | | VRRM | 50 | 100 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | VDC | 50 | 100 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum average Forward Rectified Current | | I(AV) | 2.0 | | | | | | | Amps |
| Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) | | IFSM | 70.0 | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 2.0 A | | VF | 1.1 | | | | | | | Volts |
| Maximum Reverse current at rated DC Blocking Voltage | TA=25°C | IR | 5.0 | | | | | | | µA |
| | TA=100°C | | 500 | | | | | | | |
| Typical Thermal Resistance (Note 2) | | RθJA | 35.0 | | | | | | | °C/W |
| Typical Junction Capacitance(Note 1) | | CJ | 8 | | | | | | | pF |
| Operating and Storage Temperature Range | | TJ TSTG | -55 to+150 -55 to+150 | | | | | | | °C |

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm)lead length , P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207

FIG.1-FORWARD CURRENT DERATING CURVE

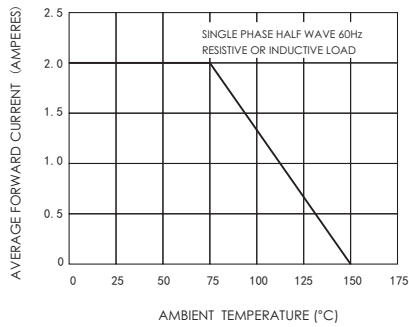


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

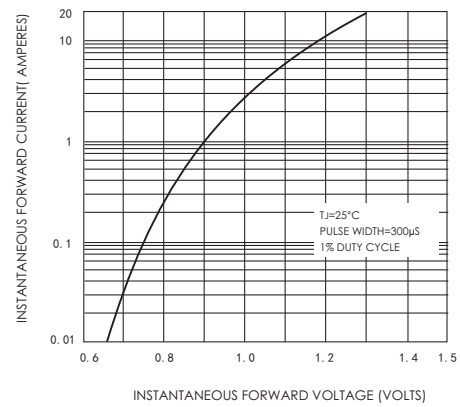


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

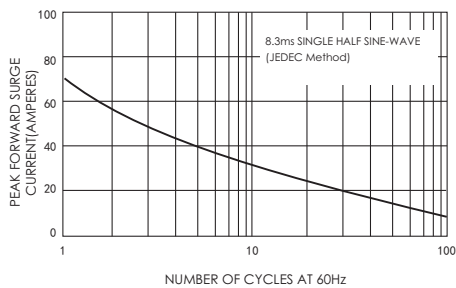


FIG.4-TYPICAL REVERSE CHARACTERISTICS

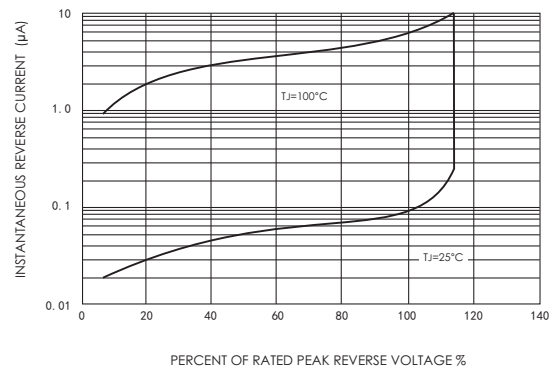


FIG.5-TYPICAL JUNCTION CAPACITANCE

