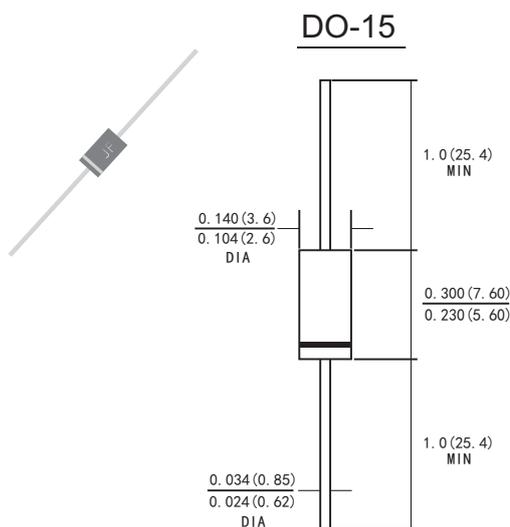


FEATURES

- 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 $T_L=75$ C with no thermal runaway
- Low reverse leakage
- High temperature soldering guaranteed: 260°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



Dimensions in inches and (millimeters)

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 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	300	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	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)	I_{FSM}	70.0							Amps
Maximum Instantaneous Forward Voltage at 2.0 A	V_F	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	$T_A=25^{\circ}C$	5.0							μA
	$T_A=100^{\circ}C$								
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	35.0							$^{\circ}C/W$
Typical Junction Capacitance(Note 1)	C_J	20							pF
Operating and Storage Temperature Range	T_J	-55 to+150							C
	T_{STG}								

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 RL201G THRU RL207G

FIG.1-FORWARD CURRENT DERATING CURVE

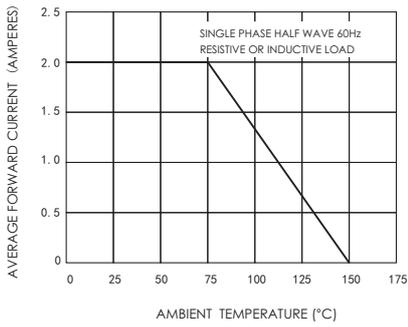


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

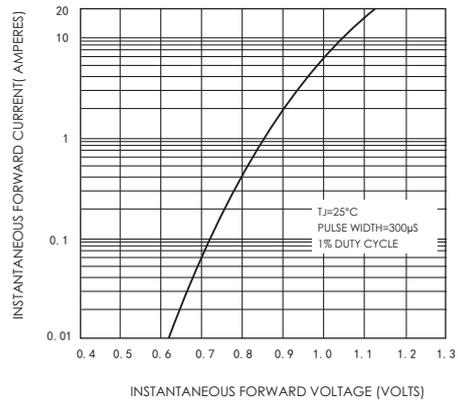


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

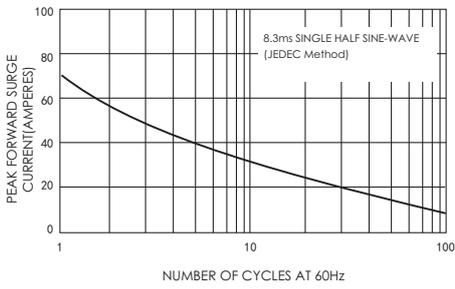


FIG.4-TYPICAL REVERSE CHARACTERISTICS

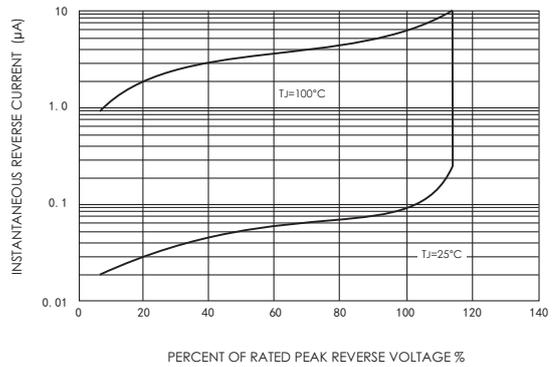


FIG.5-TYPICAL JUNCTION CAPACITANCE

