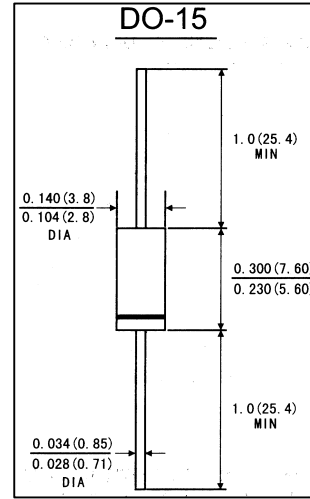


### FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . High current capaility
- . Low reverse leakage
- . Glass passivated junction
- . Low forward voltage drop
- . High temperature soldering guaranteed: 350°C/10 seconds, 0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

### MECHANICAL DATA

- . **Case:** JEDEC DO-15 molded plastic body
- . **Terminals:** Plated axial lead solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.014 ounce, 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	1N 201G	1N 202G	1N 203G	1N 204G	1N 205G	1N 206G	1N 207G	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	300	400	600	200	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	210	280	420	140	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	300	400	600	200	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T <sub>A</sub> =75°C	I <sub>(AV)</sub>	2.0							Amps
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	70.0							Amps
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	1.1							Volts
Maximum reverse current at rated DC blocking voltage	TA=25°C	5.0							μ A
	TA=100°C	50.0							
Typical thermal resistance(Note 2)	R θ <sub>JA</sub>	40.0							°C/W
Typical junction Capacitance(Note 1)	C <sub>J</sub>	20.0							pF
Operating and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-50 to +175							°C

- Notes:** 1. Measured at 1MHz and applied reverse voltage of 4.0V DC  
 2. Thermal resistance from junction to ambient and from junction lead at 0.375"(9.5mm)lead length, P.C.B. Mounted

### RATINGS AND CHARACTERISTIC CURVES RL201G THRU RL207G

FLG.1-FORWARD CURRENT DERATING CURVE

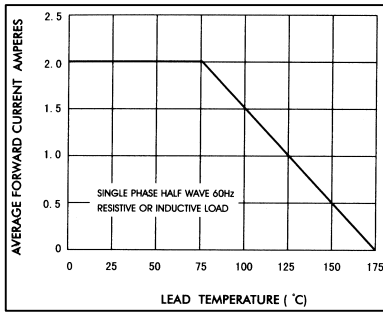


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

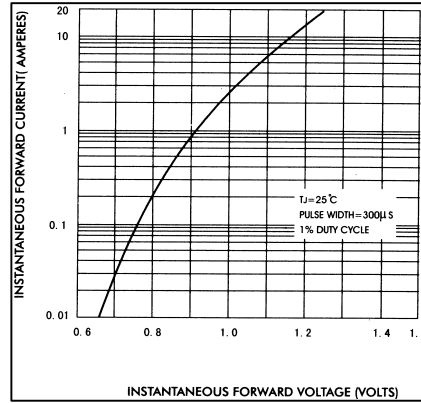


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

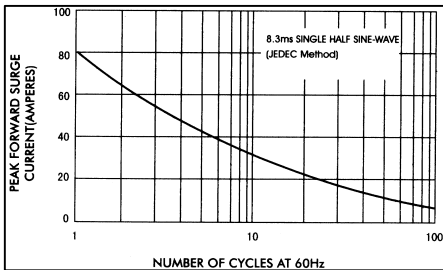


FIG.4-TYPICAL REVERSE CHARACTERISTICS

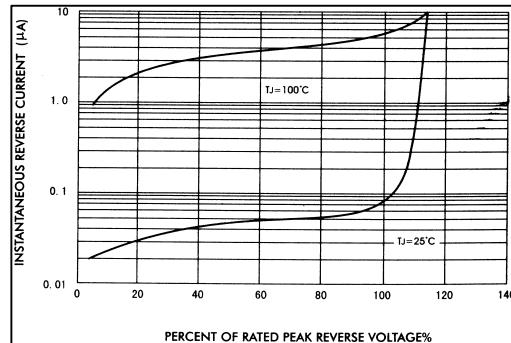


FIG.5-TYPICAL JUNCTION CAPACITANCE

