

CE

CHENYI ELECTRONICS

RL201G THRU RL207G

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

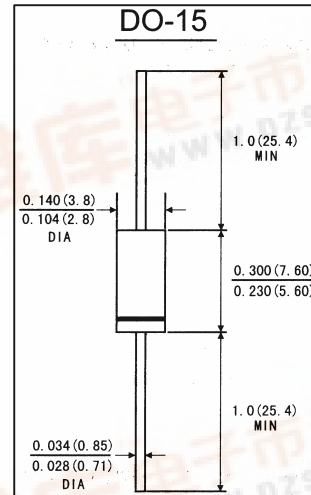
Forward Current - 2.0Amperes

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High current capability
- 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 _{RRM}	50	100	300	400	600	200	1000	Volts
Maximum RMS voltage		V _{RMS}	35	70	210	280	420	140	700	Volts
Maximum DC blocking voltage		V _{DC}	50	100	300	400	600	200	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T _A =75℃		I _(AV)	2.0							Amps
Peak forward surge current 8.3ms sing-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℃	I _R	5.0							μ A
	T _A =100℃		50.0							
Typeical thermal resistance(Note 2)		R θ _{JA}	40.0							℃/W
Typical junction Capacitance(Note 1)		C _J	20.0							pF
Operating and storage temperature range		T _J T _{STG}	-50 to +175							℃

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

2.Thermal resistance from juncton to ambient and from junction lead at 0.375"(9.5mm)lead length,

P.C.B. Mounted



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RATINGS AND CHARACTERISTIC CURVES RL201G THRU RL207G

FIG.1-FORWARD CURRENT DERATING CURVE

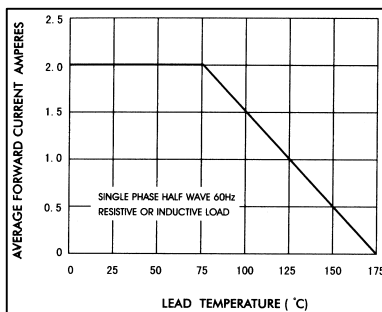


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

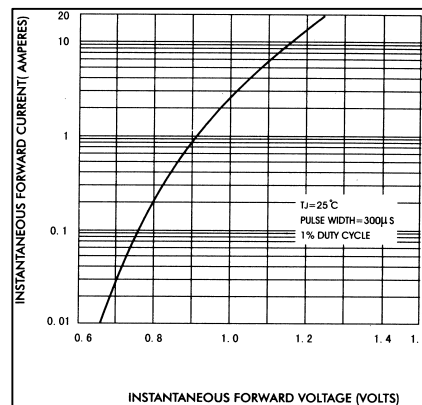


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

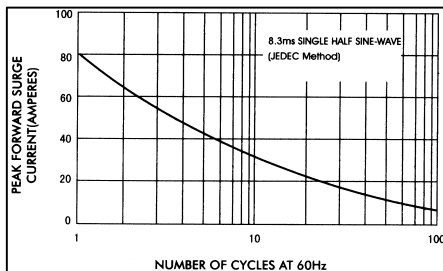


FIG.4-TYPICAL REVERSE CHARACTERISTICS

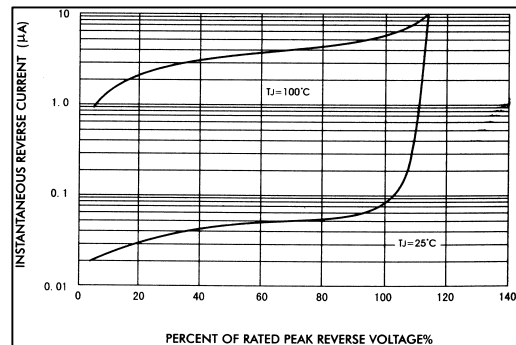


FIG.5-TYPICAL JUNCTION CAPACITANCE

