HITANO ENTERPRISE CORP.

RL201G THRU RL207G

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE – 50 to 1000 Volts CURRENT – 2.0 Amperes

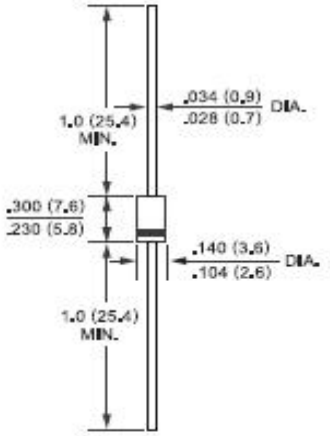
FEATURES

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

MECHANICAL DATA

*Case: Molded plastic
*Epoxy: UL 94V -0 rate flame retardant
*Lead: MIL-STD-202E, Method 208 guaranteed
*Polarity: Color band denotes cathode end
*Mounting position: Any
*Weight:0.38 gram

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified
Single phase, half wave, 60 Hz, resistive or inductive Load.
For capacitive load, derate current by 20%

		SYMBOL	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	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	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_A = 75℃		I_O	2.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	70							Amps
Maximum Instantaneous Forward Voltage at 2.0ADC		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_{A=25℃}$	I_R	5.0							μ Amps
	@ $T_{A=100℃}$		50							μ Amps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T_L =75℃			30							μ Amps
Typical Junction Capacitance (Note)		C_J	20							pF
Typical Thermal Resistance		$R_{\theta JA}$	40							℃/W

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

RATING AND CHARACTERISTIC CURVES (RL201G THRU RL207G)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

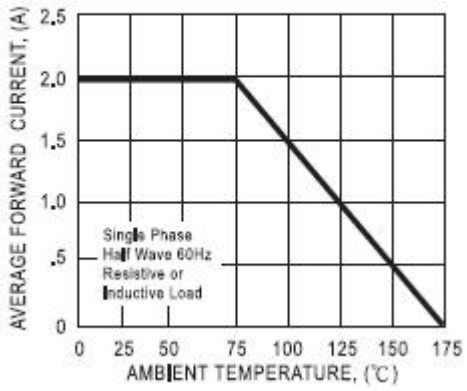


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

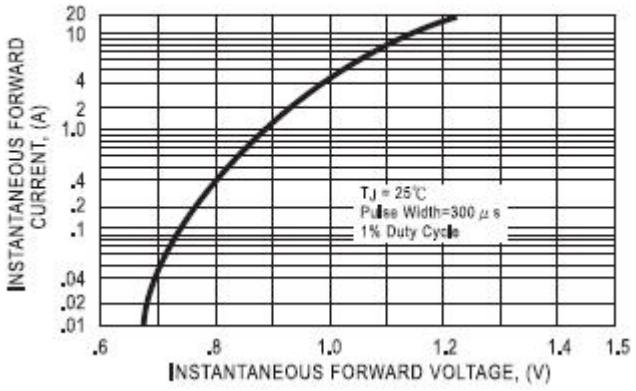


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

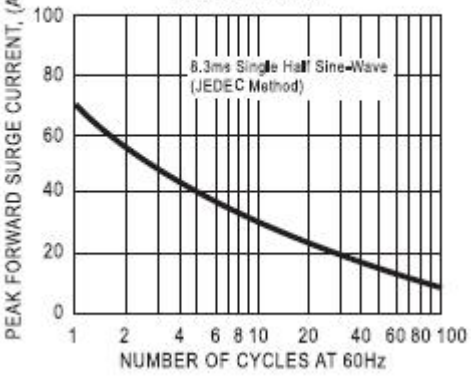


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

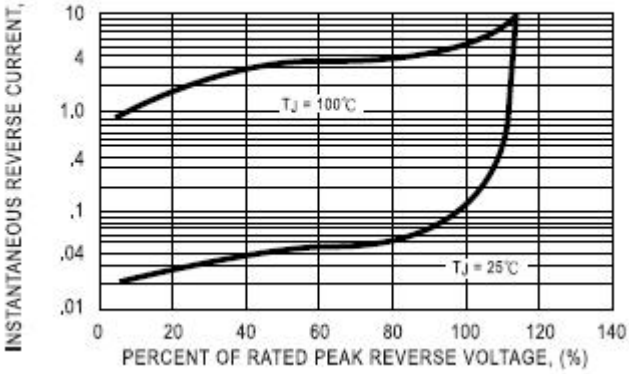


FIG. 5 - TYPICAL JUNCTION CAPACITANCE