

ENTERPRISE CORP. HITANO ENTERPRISE CORP.

RL101G THRU RL107G

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * High reliability
- * Low cost
- * 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

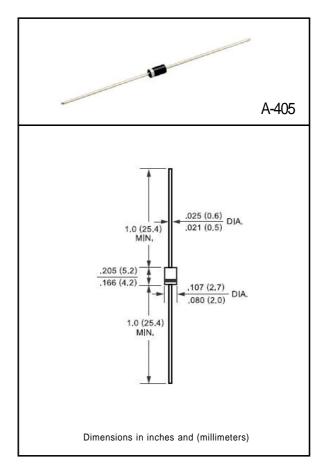
* Mounting position: Any* Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

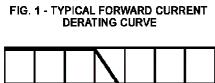
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



		SYMBOL	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1							Volts
Maximum DC Reverse Current	$@TA = 25^{\circ}C$	ļ	5.0							uAmps
at Rated DC Blocking Voltage	$@TA = 100^{\circ}C$	l _R	50							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 75°C		IR IR	30							uAmps
Typical Junction Capacitance (Note)		Cı	15							pF
Typical Thermal Resistance		RθJA	50							°C/W
Operating and Storage Temperature Range		ТЈ, ТЅТС	-65 to + 175							°C

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



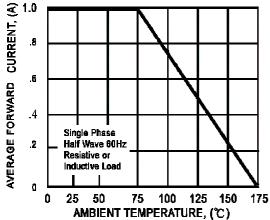


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

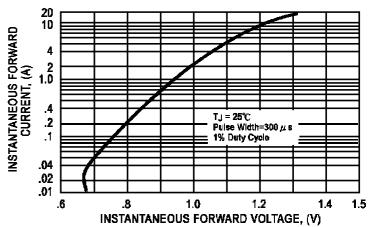


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD

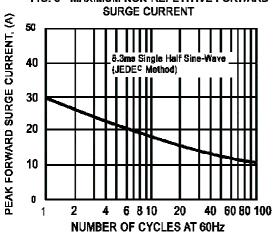


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

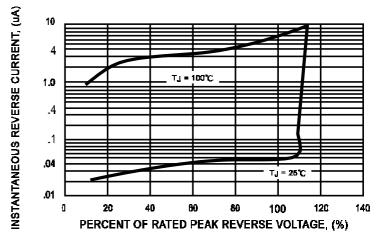


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

