

HITANO ENTERPRISE CORP.

1N4001A/RL101 THRU 1N4007A/RL107

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

FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

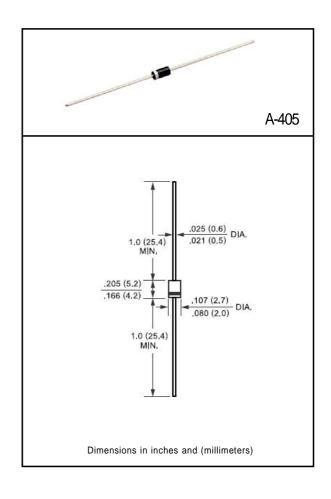
* Epoxy: UL 94V-0 rate flame retardant* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position: Any* Weight: 0.22 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave,60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



		1N4001A	1N4002A	1N4003A	1N4004A	1N4005A	1N4006A	1N4007A	
	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 = 55°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 at Rated DC Blocking Voltage $@TA = 25^{\circ}C$ $@TA = 100^{\circ}C$		5.0 500							uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 75°C	- IR	30							uAmps
Typical Junction Capacitance (Note)	CJ	15							pF
Typical Thermal Resistance	RθJA	50							°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175							°C

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

RATING AND CHARACTERISTIC CURVES (1N4001A RL101 THRU 1N4007A RL107)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

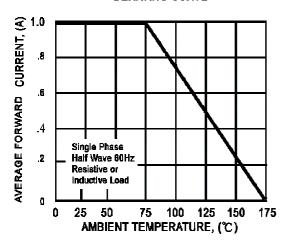


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

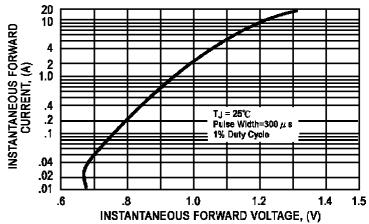


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD

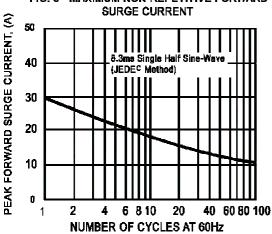


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

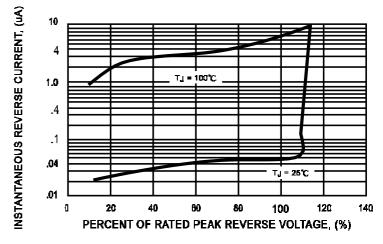


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

