

RL1N4001G THRU RL1N4007G

GLASS PASSIVATED JUNCTION SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * High reliability
- * Low leakage current
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction
- * P/N suffix V means AEC-Q101 qualified, e.g:RL1N4001GV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

* Case : Molded plastic

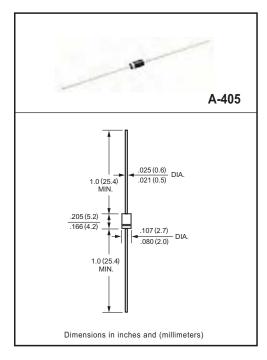
* Epoxy : Device has UL flammability classification 94V-0

* Lead : MIL-STD-202E method 208C guaranteed

* Mounting position : Any* Weight : 0.20 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%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

WAXIMUM RATINGS (@ IA-25°C unless otherwise noted)										
RATINGS	SYMBOL	RL1N4001G	RL1N4002G	RL1N4003G	RL1N4004G	RL1N4005G	RL1N4006G	RL1N4007G	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 Ta=75°C	Io	I _O 1.0					Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30					Amps			
Typical Current Squarad Time	I ² t	3.74					A ² S			
cal Thermal Resistance R _{0JA} 50					°C/W					
Typical Junction Capacitance (Note 1)	CJ	15					pF			
Operating and StorageTemperature Range	TJ,TSTG	-55 to + 150						٥C		

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

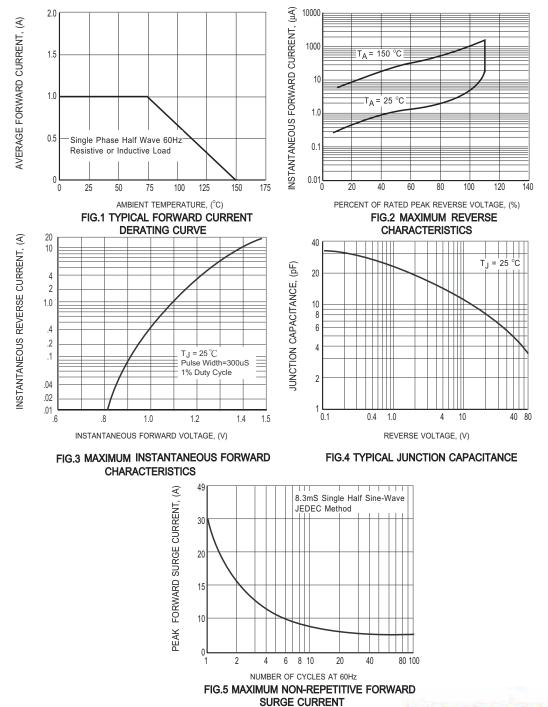
ELECTRICAL CHARACTERS TO CHICAGO CHICANOC TOLOGO											
	CHARACTERISTICS	SYMBOL	RL1N4001G	RL1N4002G	RL1N4003G	RL1N4004G	RL1N4005G	RL1N4006G	RL1N4007G	UNITS	
	Maximum Instantaneous Forward Voltage	at 1.0A DC	V _F	V _F 1.1					Volts		
	Maximum DC Reverse Current	@T _A = 25°C		5.0							uA
	at Rated DC Blocking Voltage	ated DC Blocking Voltage @T _A = 150 °C			1.0						mA
	Maximum Full Load Reverse Current Aver Cycle .375" (9.5mm) lead length at T _L =75°						30				uA

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

2. " ROHS compliant".

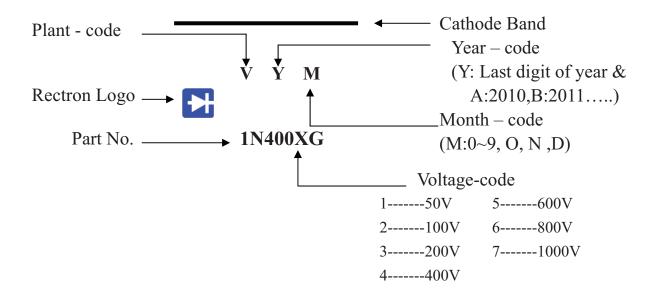
2018-04

RATING AND CHARACTERISTICS CURVES (RL1N4001G THRU RL1N4007G)





Mark Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
A-405	-B	1,000	194*84*21	415*220*255	50,000	15.64

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-T	5,000	5,000	5.0	52	330	355*350*335	20,000	8.13

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-41	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	9.6
DO-41	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	9.61
A-405	-N	2,000	12.7		325*170*40	355*350*335	28,000	11.41



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