RL201 thru RL207

MINIATURE PLASTIC SILICON RECTIFIER

CHENG-YI ELECTRONIC

VOLTAGE-50 TO 1000 Volts
CURRENT -2.0 Amperes

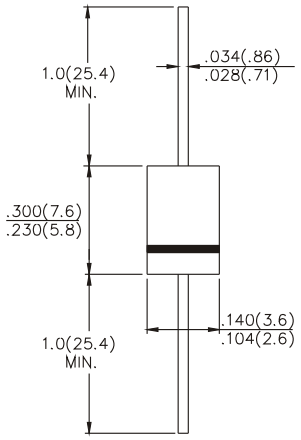
FEATURE

- Plastic package has underwriters laboratory Flammability classification 94V-O utilizing Flame retardant epoxy molding compound.
- 2.0 ampere operation at T_A=55°C with no thermal runaway
- Exceeds environmental standard of MIL-STD-19500/228

MECHANICAL DATA

- Case:Molded plastic ,DO-15
- Terminals:axial leads ,solderable per MIL-STD-202, Method 208
- Polarity:Color band denotes cathode
- Mounting position:Any
- Weight:0.015 ounce, 0.4 gram

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless specified. Resistive or inductive load, 60Hz.
For capacitance load derate current by 20%.

	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375", 9.5mm Lead Length at T_A =60°C	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rted load (JEDEC method)	70							A
Maximum Forward Voltage at 2.0A	1.1							V
Maximum Reverse Current T_A =25°C	5.0							μA
at Rated DC Blocking Voltage T_A =100°C	500							μA
Typical Junction Capacitance See (Note 1)	40							pF
Typical Thermal Resistance (Note 2) RθJA	25							°C / W
Operating and Storage Temperature Range, T_J, T_{STG}	-55 to +150							°C

Notes : 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length P.C.B. mounted.

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RATING AND CHARACTERISTICS CURVES
RL201 THRU RL207

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

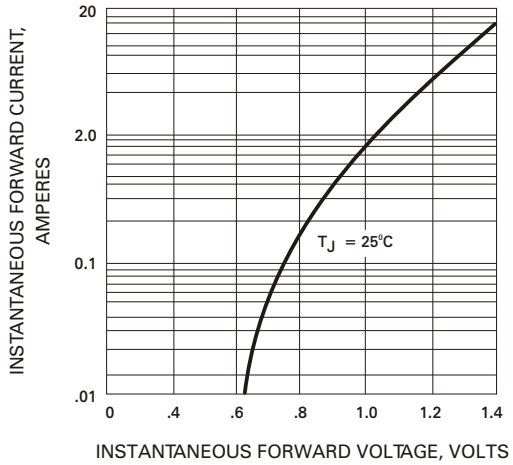

Fig. 2 - PEAK FORWARD SURGE CURRENT

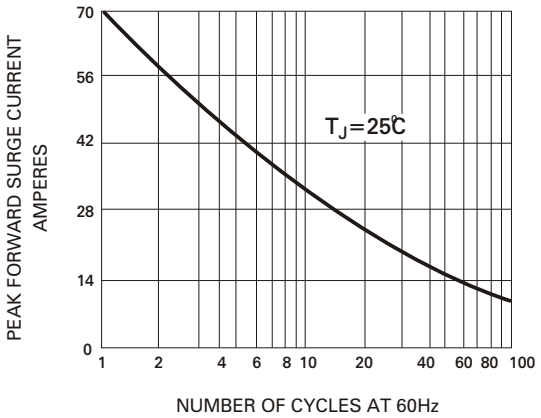

Fig. 3 - FORWARD CURRENT DERATING CURVE

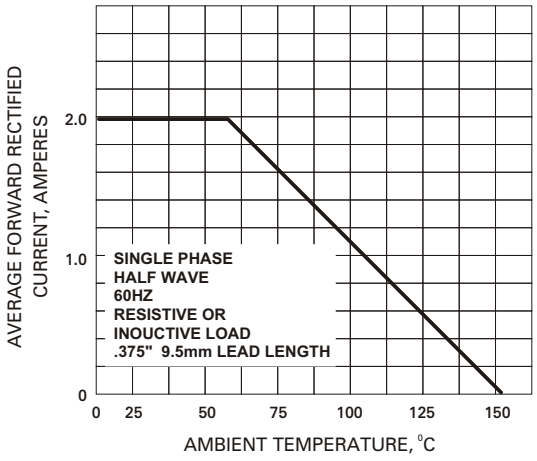

Fig. 4 - TYPICAL JUNCTION CAPACITANCE