RL101 THRU RL107

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.0A

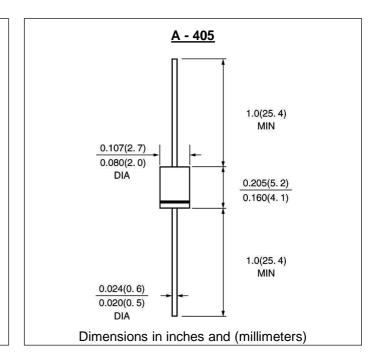


FEATURE

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal:Plated axial leads solderable per
MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	RL 101	RL 102	RL 103	RL 104	RL 105	RL 106	RL 107	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0							Α
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	30.0							А
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1						V	
Maximum full load reverse current full cycle at T _L =75°C	Ir(av)	30.0						μΑ	
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	lr	5.0 50.0							μA μA
Typical Junction Capacitance (Note 1)	Cj	15.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0							°C/W
Storage and Operation Junction Temperature	Tstg	-50 to +175							°C

Note:

- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES RL101 THRU RL107

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

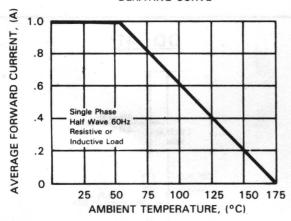


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

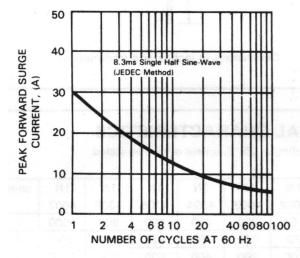


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

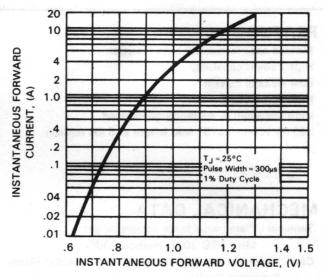


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

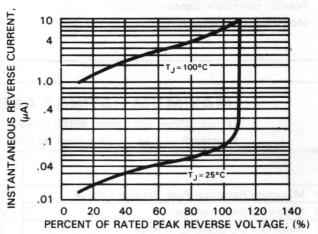
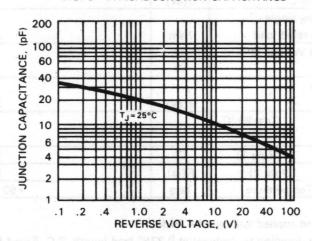


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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