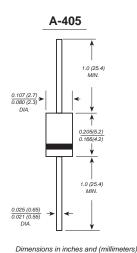


RL101 THRU RL107

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -1.0 Ampere



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- High forward surge current capability
- High temperature soldering guarantéed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: A-405 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	RL 101	RL 102	RL 103	RL 104	RL 105	RL 106	RL 107	UNITS
Maximum repetitive 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	I(AV) 1.0							Amp	
0.375"(9.5mm) lead length at Ta=75℃ Peak forward surge current									
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		30.0						
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	lR	5.0 50.0							μА
Typical junction capacitance (NOTE 1)	Cı	15.0							pF
Typical thermal resistance (NOTE 2)	RθJA	50.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +175							°C

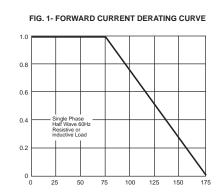
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

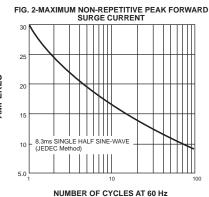
MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES RL101 THRU RL107









AMBIENT TEMPERATURE,°C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD

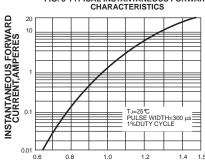
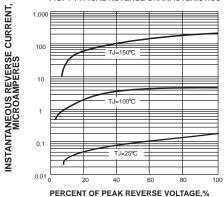
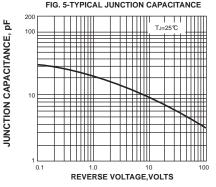


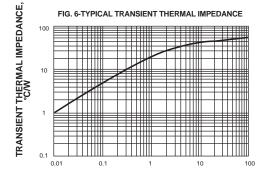
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t,PULSE DURATION,sec.

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