RL101 THRU RL107

GENERAL PURPOSE PLASTIC SILICON RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 1.0 AMPERE



FEATURES

· Low forward voltage drop

· High current capability

· High capability

· High surge current capability

· Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic, A-405

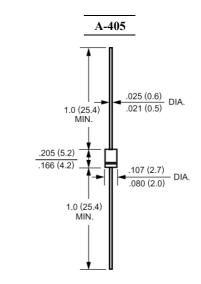
Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.008ounce, 0.22gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	RL101	RL102	RL103	RL104	RL105	RL106	RL107	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 .375"(9.5mm) Lead Length at T_A =75	I _(AV)	1.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 30							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 1.0A DC and 25	V_{F}	1.1							Volts
Maximum Reverse Current at T _A =25	-				5.0				
at Rated DC Blocking Voltage T _A =100	I_R	500							uAmp
Typical Junction Capacitance (Note 1)	C_{J}	15							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							/W
Operating Junction Temperature Range	T_{J}	-55 to +150							
Storage Temperature Range	Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.

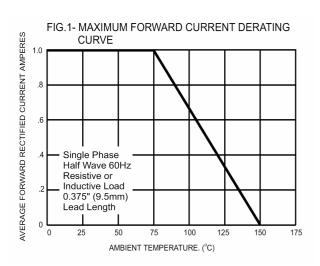
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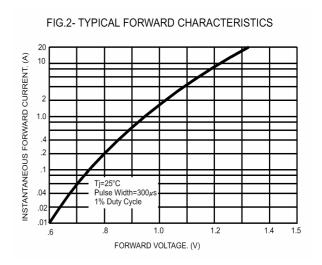
RL101 THRU RL107

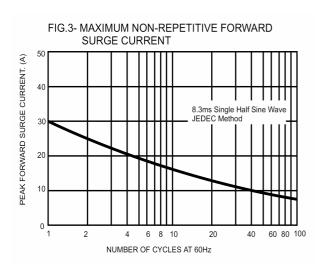
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RATINGS AND CHARACTERISTIC CURVES







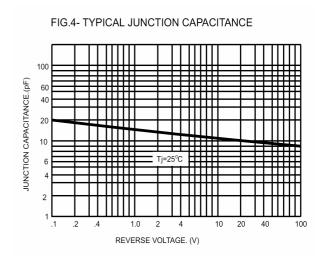
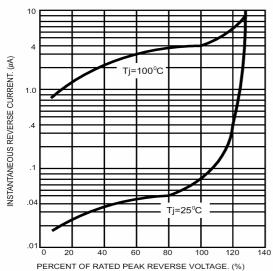


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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