

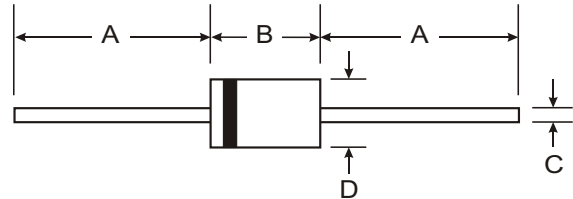
RL101 - RL107

1.0A SILICON RECTIFIER

DISCONTINUED,
NOT RECOMMENDED FOR NEW DESIGNS,
PLEASE USE 1N4001L - 1N4007L

Features

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material - UL Flammability Classification 94V-0



Mechanical Data

- Case: A-405, Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Approx. Weight: 0.35 grams
- Mounting Position: Any

A-405		
Dim	Min	Max
A	25.4	—
B	4.1	5.2
C	—	0.6
D	2.0	2.7
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, halfwave, 60Hz, resistive or inductive load.

Characteristic	Symbol	RL 101	RL 102	RL 103	RL 104	RL 105	RL 106	RL 107	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A = 75^\circ C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) (See Fig 3)	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage @ 1.0 A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ C$	I_R	5.0							μA
Maximum Full Load Reverse Current Full Cycle Average 9.5 mm lead length @ $T_L = 55^\circ C$	I_R	100							μA
Typical Junction Capacitance (Note 1)	C_J	20							pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150							$^\circ C$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V.

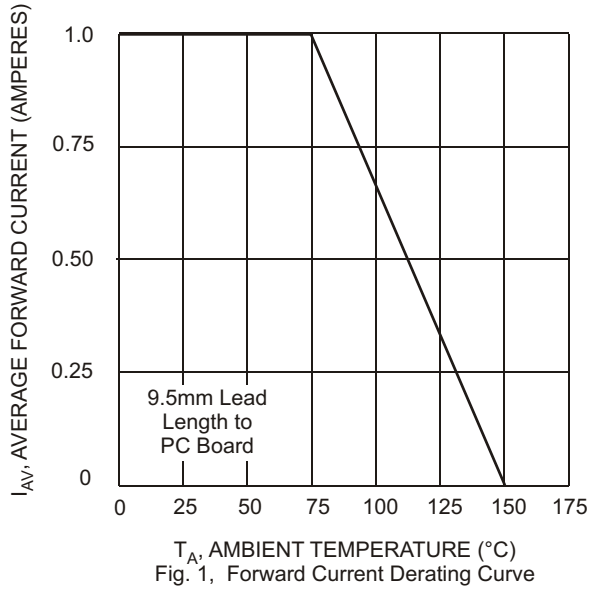


Fig. 1, Forward Current Derating Curve

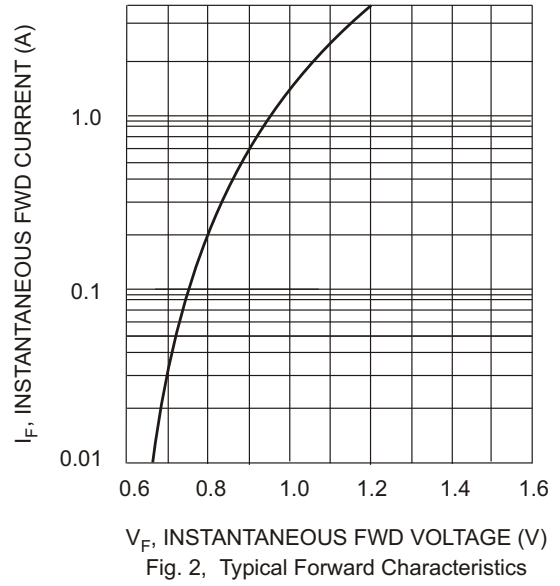


Fig. 2, Typical Forward Characteristics

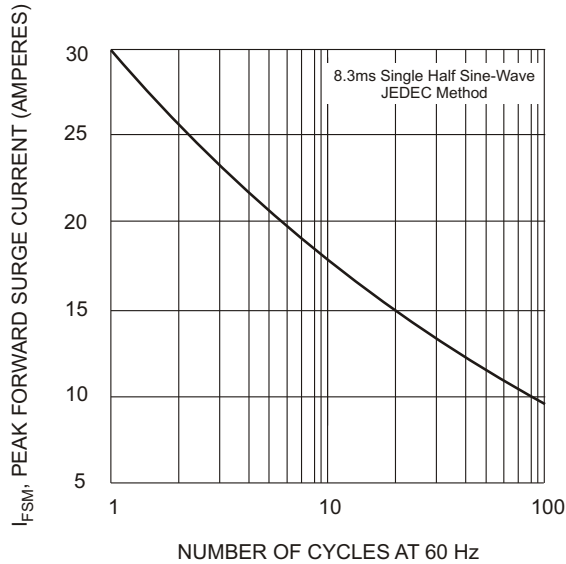


Fig. 3, Maximum Non-Repetitive Surge Current

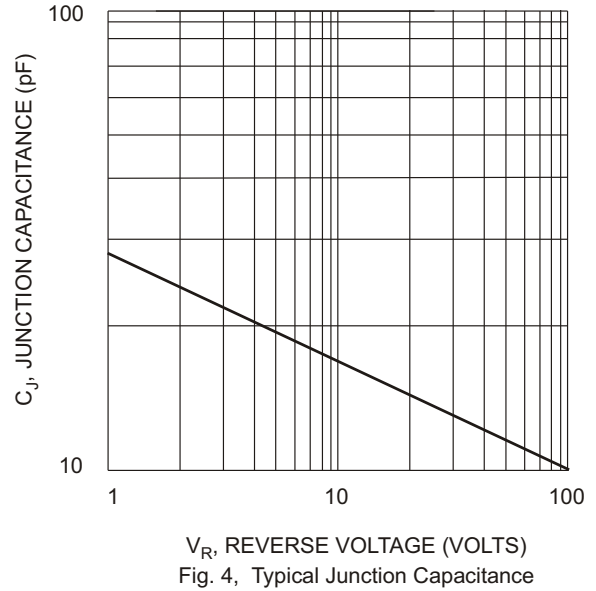


Fig. 4, Typical Junction Capacitance

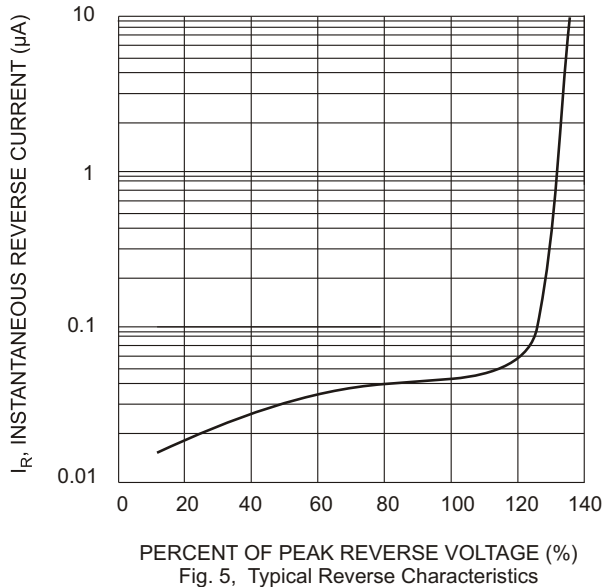


Fig. 5, Typical Reverse Characteristics