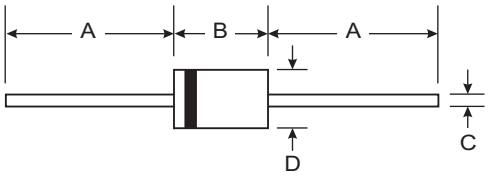
RL201 - RL207

2.0A RECTIFIER

NOT RECOMMENDED FOR NEW DESIGNS, USE 2A01G - 2A07G

Features

- Low Reverse Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material - U/L Flammability Classification 94V-0



Mechanical Data

- Case: DO-15, Molded Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Approx Weight: 0.4 grams
- Mounting Position: Any

DO-15		
Dim	**Min**	**Max**
A	25.4	—
B	5.8	7.6
C	0.71	0.86
D	2.6	3.6
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

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

Characteristic	Symbol	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Unit
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=50°C	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70							A
Maximum Instantaneous Forward Voltage at 2.0A DC	V_F	1.0							V
Maximum DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 125°C	I_R	5.0 50							μA
Maximum Full Load Reverse Current Full Cycle Average 9.5 mm lead length @ T_L = 75°C	I_R	30							μA
Typical Junction Capacitance (Note 1)	C_J	40							pF
Typical Thermal Resistance	$R_{\theta JC}$	40							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to 150							°C

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

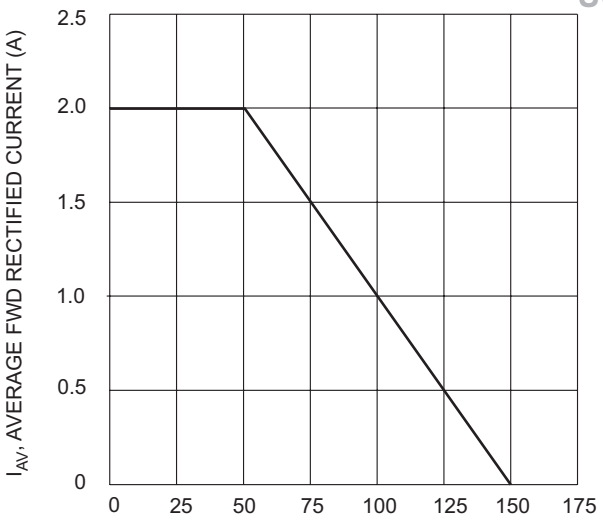


Fig. 1, Forward Current Derating Curve

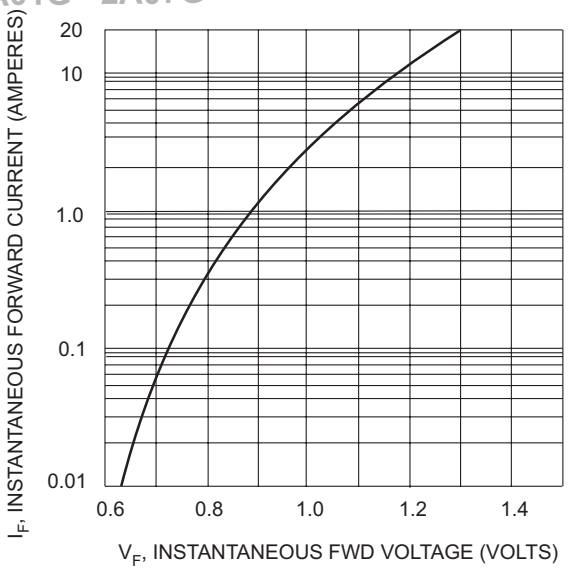


Fig. 2, Typical Forward Characteristics

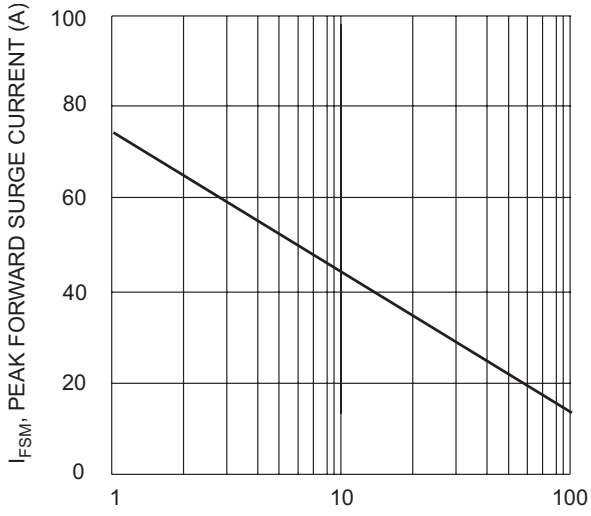


Fig. 3, Maximum Non-Repetitive Surge Current

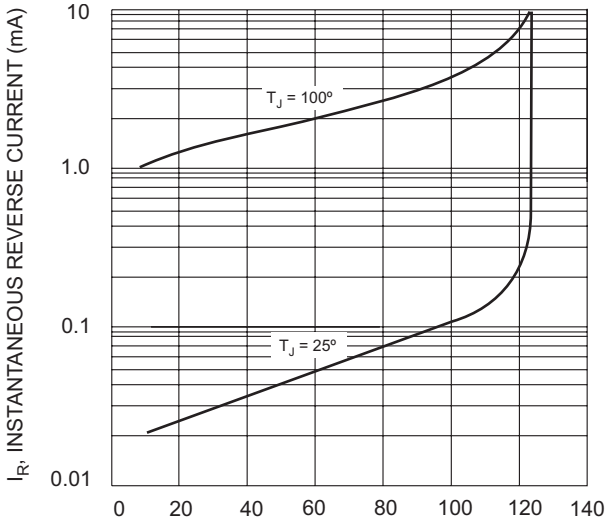


Fig. 4, Typical Reverse Characteristics

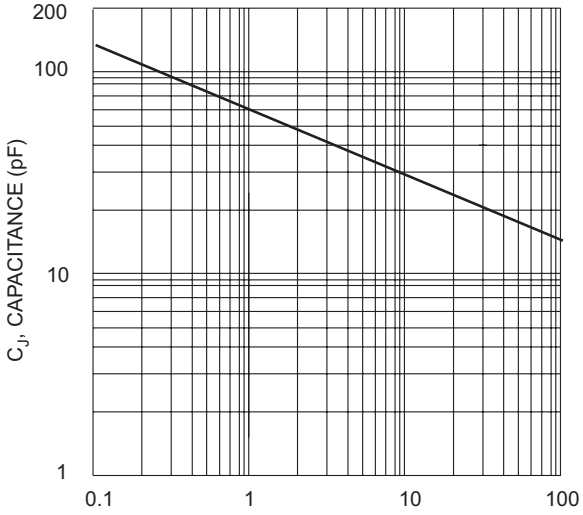


Fig. 5, Typical Junction Capacitance