



# RL201GU THRU RL207GU

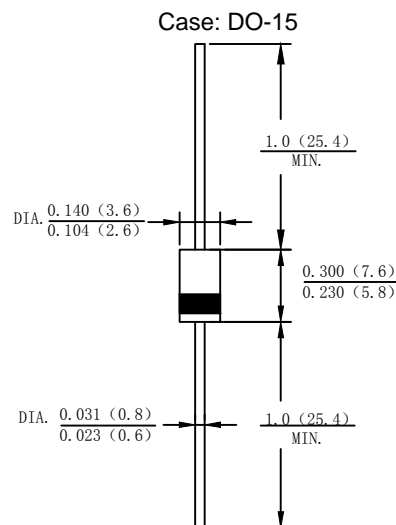
2.0 AMP. Glass Passivated Rectifiers

## Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

## Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For Rohs/Lead Free Version



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	RL201 GU	RL202 GU	RL203 GU	RL204 GU	RL205 GU	RL206 GU	RL207 GU	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T <sub>L</sub> =100 °C	I <sub>F(AV)</sub>	2.0							A
Non-Repetitive Peak Forward Surge @T <sub>j</sub> =25 °C Current 8.3ms Single half sine-wave@T <sub>j</sub> =125 °C Superimposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>	60 48							A
Non-Repetitive Peak Forward Surge @T <sub>j</sub> =25 °C Current 1.0ms Single half sine-wave @T <sub>j</sub> =125°C Superimposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>	120 96							A
10000 times of the wave surge current (time width 1ms, time interval 3s )	I <sub>FSM</sub>	45							A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	14.94							A <sup>2</sup> s
Forward Voltage @I <sub>F</sub> =2.0A @T <sub>A</sub> =25 °C	V <sub>FM</sub>	1.0							V
Peak Reverse Current @T <sub>A</sub> =25 °C	I <sub>R</sub>	5.0							uA
At Rated DC Blocking Voltage @T <sub>A</sub> =125 °C		100							
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	6							pF
Typical Thermal Resistance Junction to Ambient	R <sub>θ JL</sub> R <sub>θ JA</sub>	12 66							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



# RL201GU(H) THRU RL207GU(H)

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Fig. 1 Forward Current Derating Curve

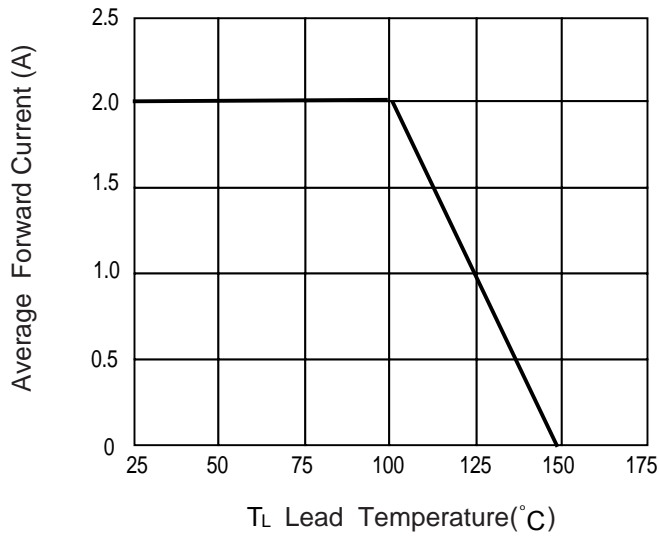


Fig. 2 Typ. Forward Characteristics

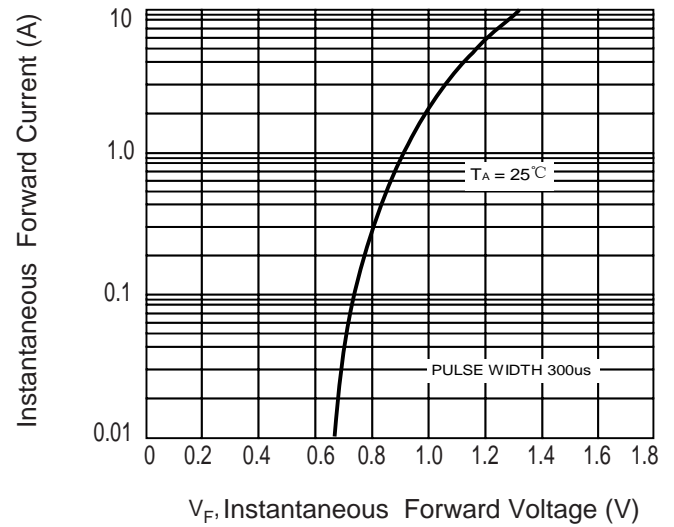


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

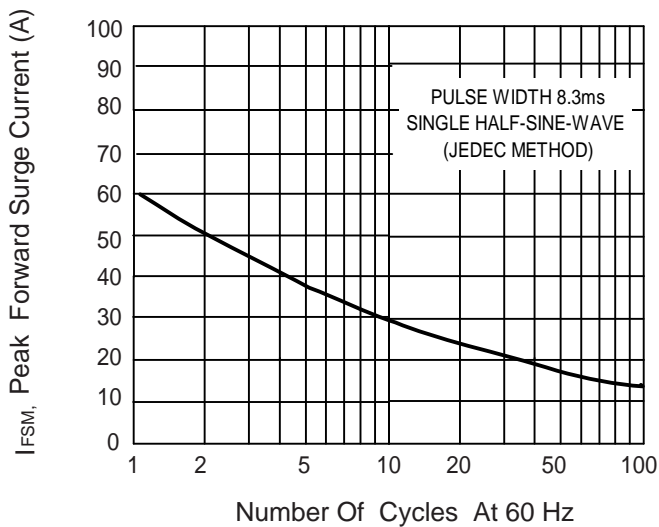


Fig.4 Typical Reverse Characteristics (per element)

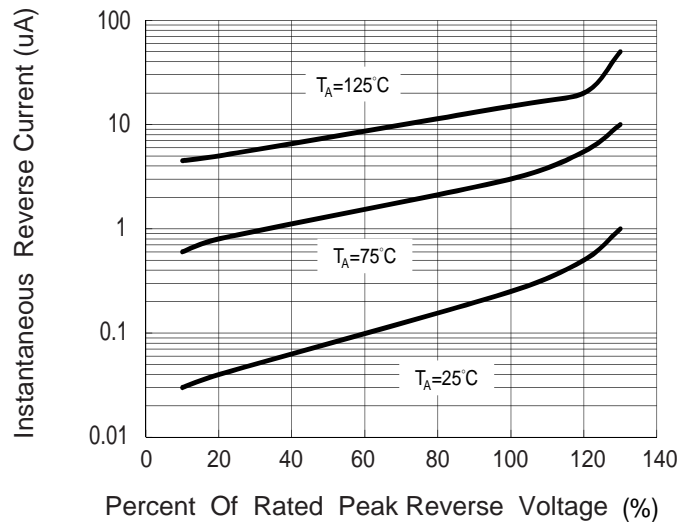
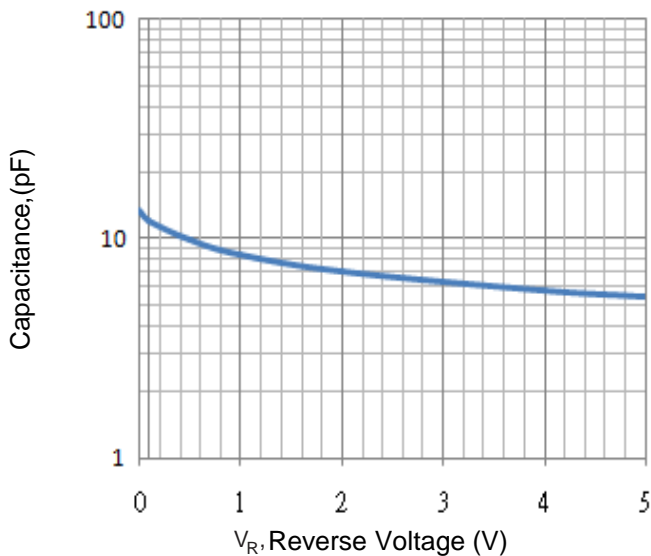


Fig.4 Typical Junction Capacitance





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