RL201G THRU RL207G

GLASS PASSIVATED SILICON RECTIFIERS Reverse Voltage - 50 to 1000 V Forward Current - 2 A

Features

- The plastic package carries UL flammability classification 94V-0
- High forward surge current capability
- Low reverse current

Mechanical Data

- Case: DO-15 molded plastic body
- **Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Characteristics

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

Parameter	Symbols	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	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	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								А	
0.375" (9.5 mm) Lead Length at $T_a = 75^{\circ}C$	IF(AV)	2							
Peak Forward Surge Current 8.3 ms Single Half	I _{FSM} 70								
Sine-wave Superimposed on Rated Load (JEDEC							А		
method)									
Maximum Forward Voltage at I _F = 2 A	VF	1.1						V	
Maximum DC Reverse Current at $T_a = 25^{\circ}C$	5								
at Rated DC Blocking Voltage at $T_a = 100^{\circ}C$	IR			50				μΑ	
Typical Junction Capacitance ¹⁾	CJ	20						pF	
Typical Thermal Resistance ²⁾	Reja	50						°C/W	
Operating and Storage Temperature Range	Tj ,Tstg	- 65 to + 175						°C	

 $^{1)}$ Measured at 1 MHz and applied reverse voltage of 4 V DC.

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



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INSTANTANEOUS FORWARD VOLEAGE, VOLTS





NUMBER OF CYCLES AT 60 Hz









t, PULSE DURATION, sec.

