



Micro Commercial Components



Micro Commercial Components  
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# RL201GP THRU RL207GP

## 2 Amp Glass Passivated Rectifier 50 to 1000 Volts

### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Glass Passivated Junction
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance (R<sub>θJA</sub>) 50°C/W

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL201GP	RL201GP	50V	35V	50V
RL202GP	RL202GP	100V	70V	100V
RL203GP	RL203GP	200V	140V	200V
RL204GP	RL204GP	400V	280V	400V
RL205GP	RL205GP	600V	420V	600V
RL206GP	RL206GP	800V	560V	800V
RL207GP	RL207GP	1000V	700V	1000V

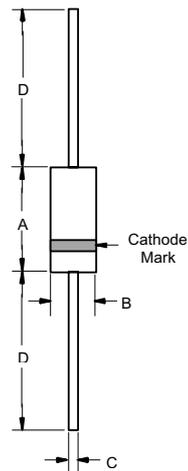
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	2 A	T <sub>A</sub> = 75°C
Peak Forward Surge Current	I <sub>FSM</sub>	60A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V	I <sub>FM</sub> = 2.0A*; T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 50μA	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C
Typical Junction Capacitance	C <sub>J</sub>	20pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

\*Pulse Test: Pulse Width 300μsec, Duty Cycle 1%

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

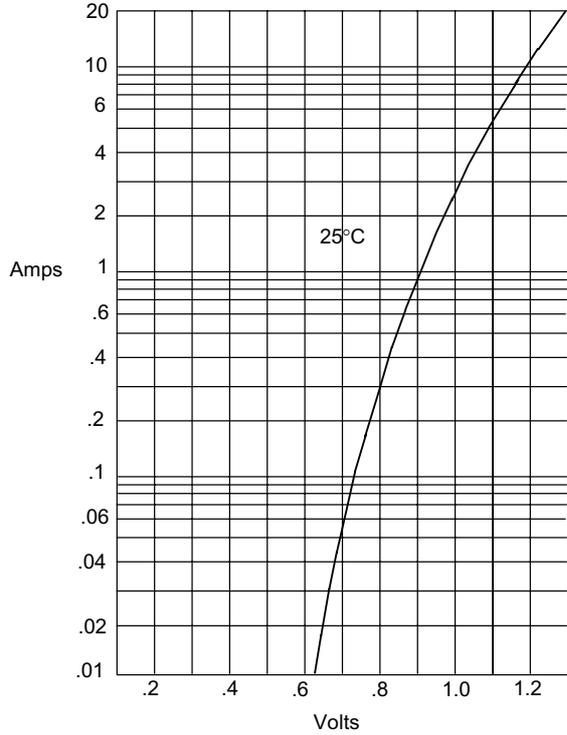
### DO-15



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

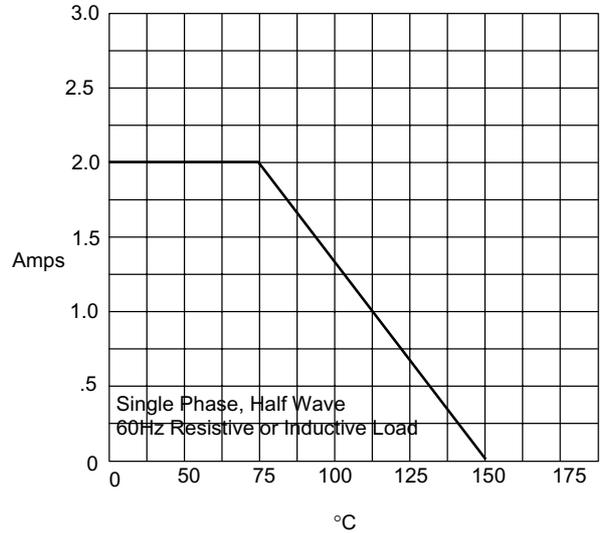
RL201GP thru RL207GP

Figure 1  
Typical Forward Characteristics



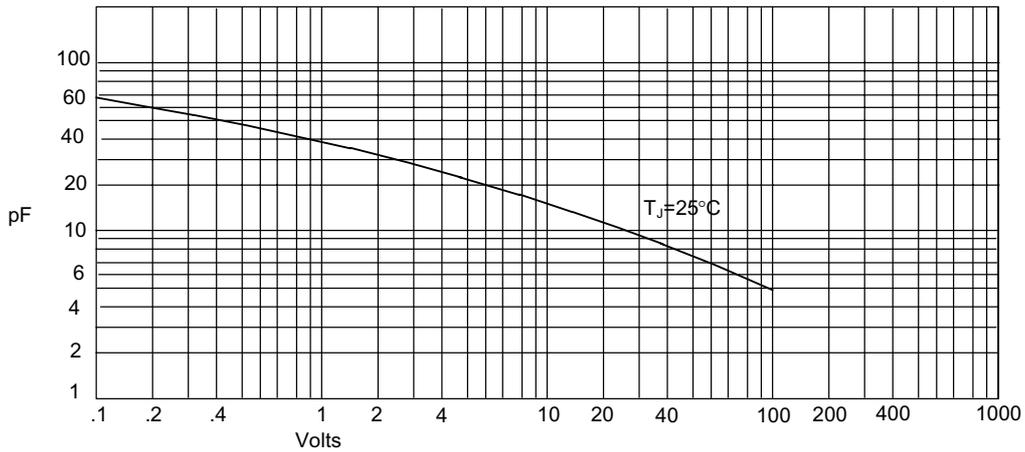
Instantaneous Forward Current - MicroAmperes *versus* Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



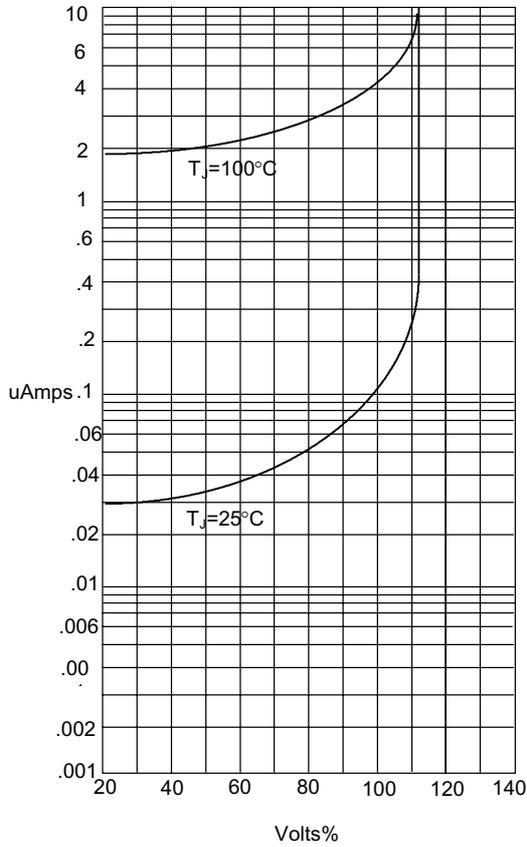
Average Forward Rectified Current - Amperes *versus* Ambient Temperature - °C

Figure 3  
Junction Capacitance



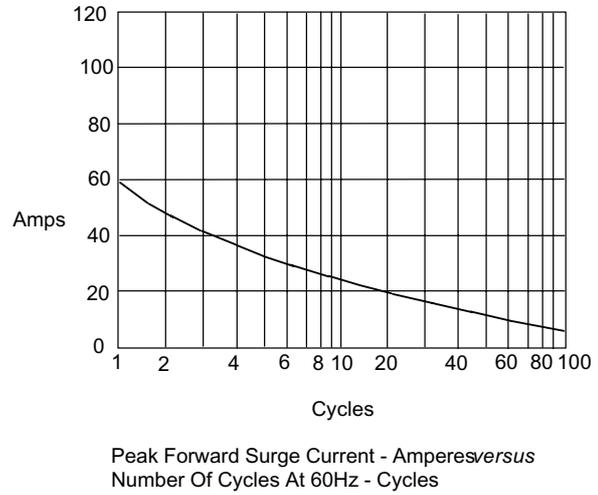
Junction Capacitance - pF *versus* Reverse Voltage - Volts

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Current - Amperes versus  
Percent Of Rated Peak Reverse Voltage - Volts%

Figure 5  
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 4Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box
Part Number-BP	Bulk: 25Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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