

### Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability
- Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)



### Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value							Unit
		RL 201GP	RL 202GP	RL 203GP	RL 204GP	RL 205GP	RL 206GP	RL 207GP	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V <sub>RWM</sub>								
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ T <sub>A</sub> =55°C	I <sub>F(AV)</sub>	2							A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I <sub>FSM</sub>	70							A
Non-Repetitive Peak Surge Current @ 1ms Square Wave		120							
Current Squared Time @ 1ms≤t≤8.3ms	I <sup>2</sup> t	20							A <sup>2</sup> s

### Marking Code

Part Number	Marking Code
RL201GP	RL201GP
RL202GP	RL202GP
RL203GP	RL203GP
RL204GP	RL204GP
RL205GP	RL205GP
RL206GP	RL206GP
RL207GP	RL207GP

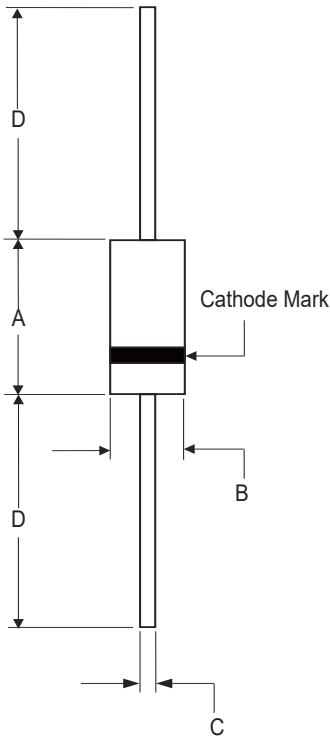
### Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	 <p>XXXXXX: Marking Code</p>	
2	Anode		

Note: 1. High temperature solder exemption applied, see EU directive annex 7a.

## 2 Amp General Purpose Rectifier 50 to 1000 Volts

### DO-15



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.230	0.300	5.80	7.60	
B	0.104	0.140	2.60	3.60	
C	0.028	0.035	0.70	0.90	
D	1.000	-----	25.40	-----	

### Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T <sub>J</sub>	Operating Junction Temperature Range		-55		150	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth(J-A)	Thermal Resistance from Junction to Ambient			50		°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2A; T <sub>J</sub> =25°C			1.0	V
Reverse Current	I <sub>R</sub>	at Rated V <sub>R</sub> ; T <sub>J</sub> =25°C at Rated V <sub>R</sub> ; T <sub>J</sub> =100°C			5 50	μA
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =4V; f=1MHz; T <sub>J</sub> =25°C		13		pF

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

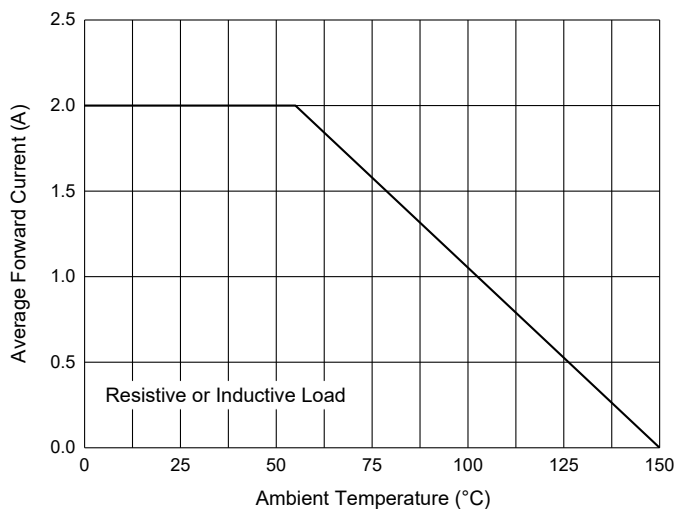


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

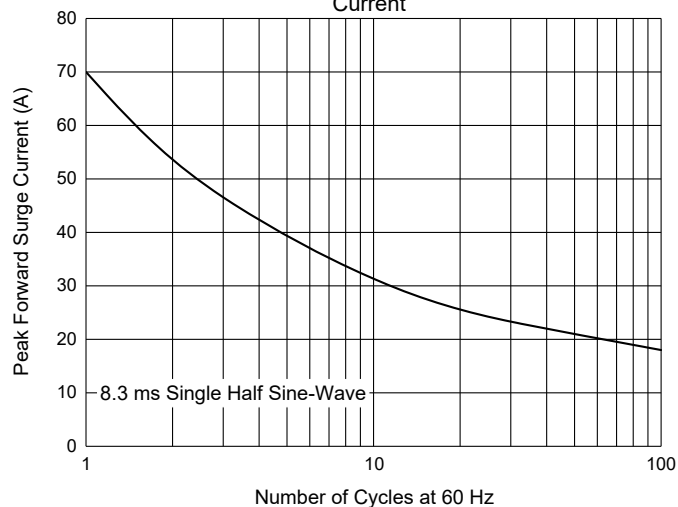


Fig. 3 - Typical Forward Characteristics

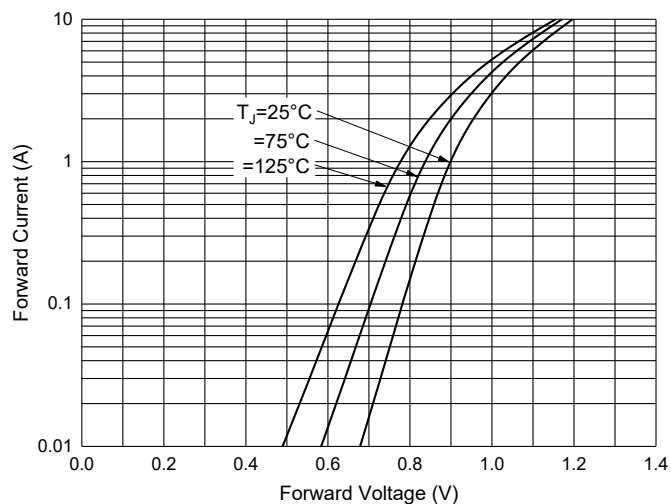


Fig. 4 - Typical Reverse Leakage Characteristics

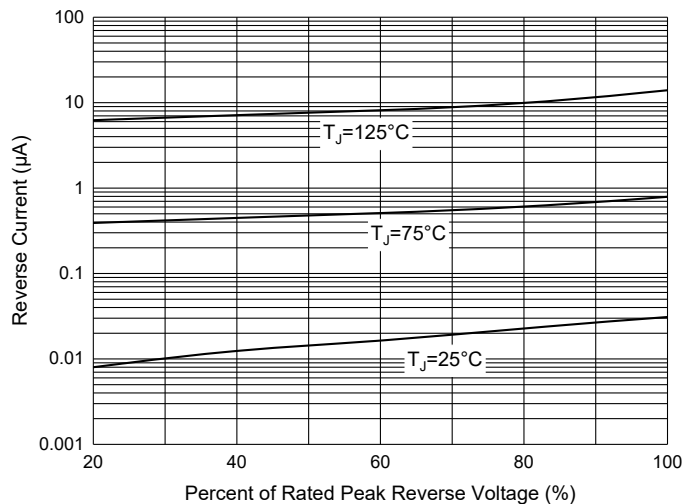
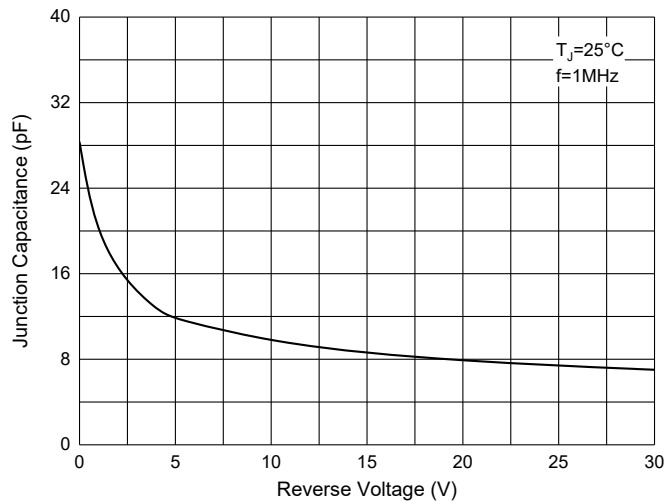


Fig. 5 - Typical Capacitance Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:4Kpcs/Reel
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box
Part Number-BP	Bulk:500pcs/Box,25Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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