

## Features

- Low Current Leakage
- Metalurgically Bonded Construction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 50°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL101GP	RL101	50V	35V	50V
RL102GP	RL102	100V	70V	100V
RL103GP	RL103	200V	140V	200V
RL104GP	RL104	400V	280V	400V
RL105GP	RL105	600V	420V	600V
RL106GP	RL106	800V	560V	800V
RL107GP	RL107	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

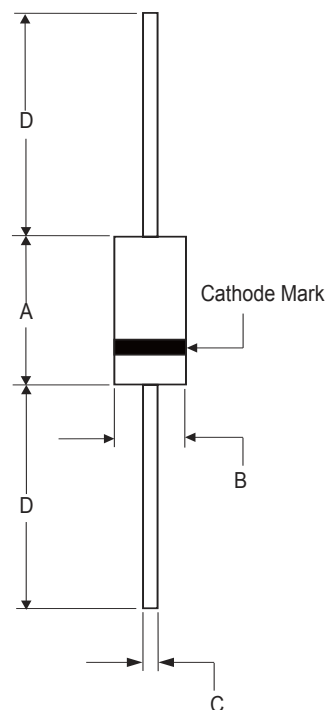
Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 75^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	30A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM}=1.0A$ ; $T_J=25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu\text{A}$ 50 $\mu\text{A}$	$T_J=25^\circ\text{C}$ ; $T_J=125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	15pF	Measured at 1.0MHz $V_R=4.0V$

\*Pulse Test: Pulse Width 300  $\mu\text{sec}$ , Duty Cycle 2%

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

# 1.0 Amp Rectifier 50 to 1000 Volts

## A-405



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.166	0.205	4.10	5.20	
B	0.080	0.107	2.00	2.70	
C	0.021	0.025	0.53	0.64	
D	1.000	-----	25.40	-----	

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

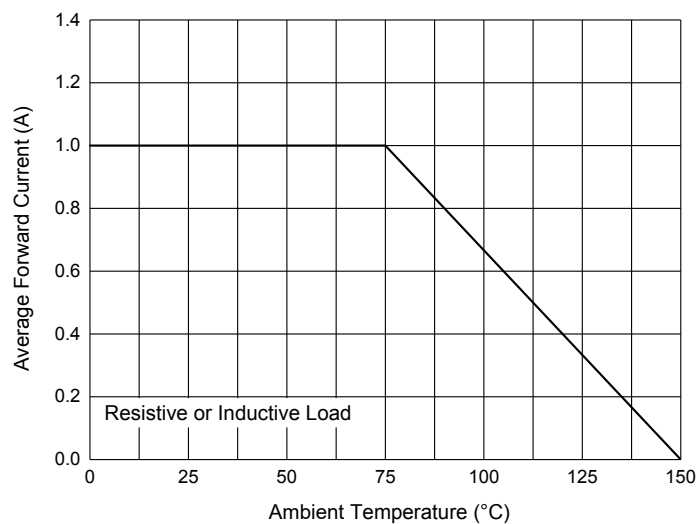


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

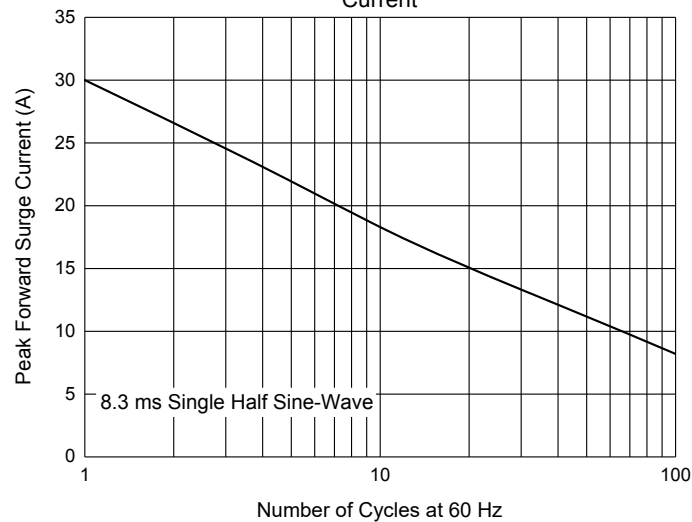


Fig. 3 - Typical Instantaneous Forward Characteristics

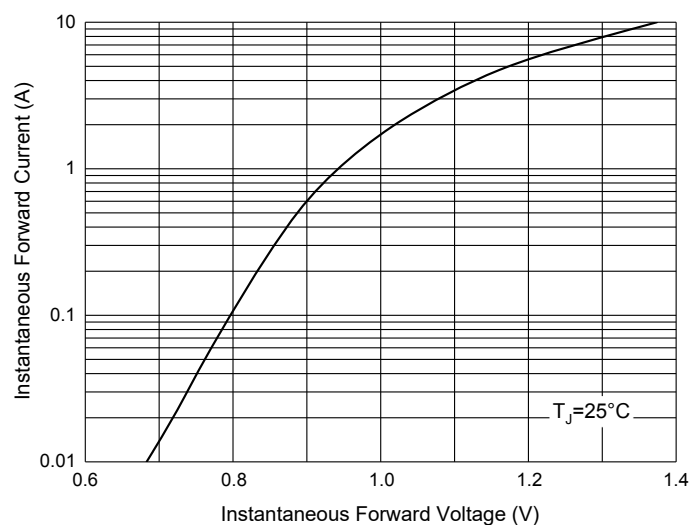
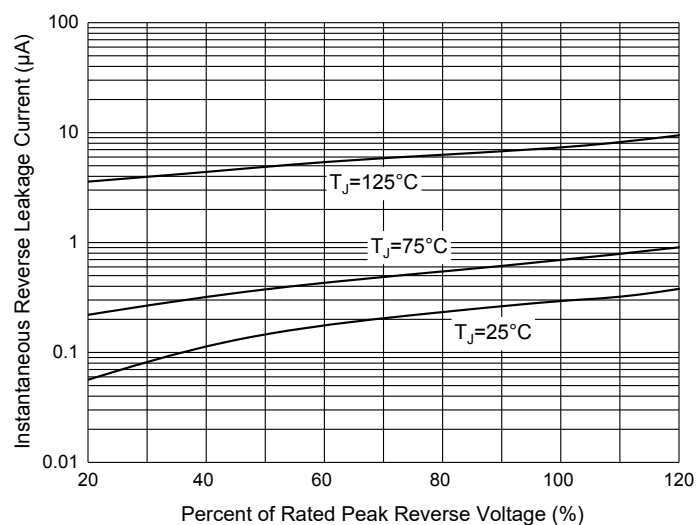


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel

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

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<a href="#"><u>RL101GP-BP</u></a>	<a href="#"><u>RL102GP-AP</u></a>	<a href="#"><u>RL102GP-BP</u></a>	<a href="#"><u>RL103GP-AP</u></a>	<a href="#"><u>RL103GP-BP</u></a>	<a href="#"><u>RL104GP-AP</u></a>	<a href="#"><u>RL104GP-BP</u></a>	<a href="#"><u>RL106GP-AP</u></a>
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