

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Glass Passivated Chip Junction
- Low Current Leakage
- Metalurgically Bonded Construction
- 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)

Demonster	Currench e l	Value						11	
Parameter	Symbol	RL1 01GP	RL1 02GP	RL1 03GP	RL1 04GP	RL1 05GP	RL1 06GP	RL1 07GP	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ $T_A=75^{\circ}C$	I _{F(AV)}				1				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	30			A				
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735			A²s				

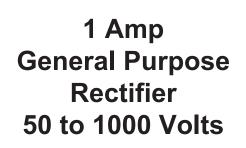
Marking code

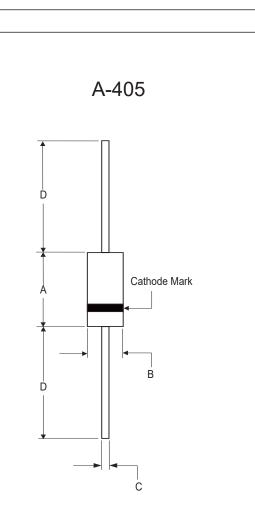
-	
Part Number	Marking Code
RL101GP	RL101
RL102GP	RL102
RL103GP	RL103
RL104GP	RL104
RL105GP	RL105
RL106GP	RL106
RL107GP	RL107

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	MCC J XXXXX 2 2 2 Marking Code	1 o

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





DIMENSIONS						
DIM	INCHES		M	М	NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
А	0.166	0.205	4.10	5.20		
В	0.080	0.107	2.00	2.70		
С	0.021	0.025	0.53	0.64		
D	1.000		25.40			



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	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	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 50	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		6		pF





Curve Characteristics

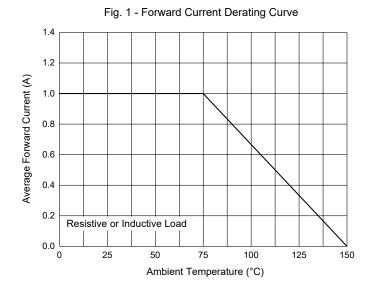
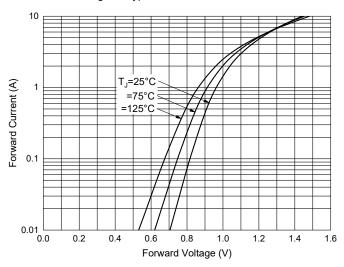
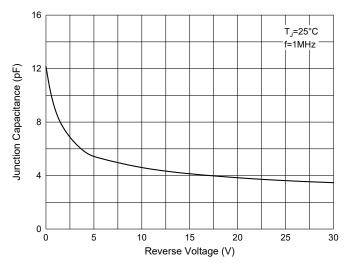


Fig. 3 - Typical Forward Characteristics







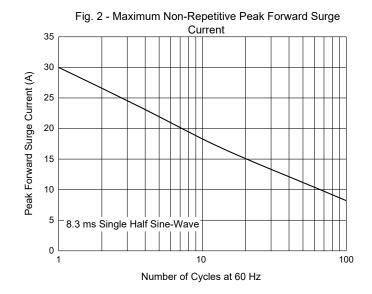
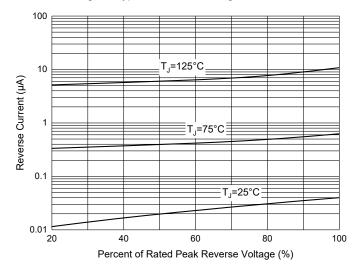


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

RL107GP-TP RL105GP-TP RL106GP-TP RL106GP-AP RL106GP-BP RL107GP-AP RL107GP-BP