

## 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 <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ $T_A=75^{\circ}C$	I <sub>F(AV)</sub>				1				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I <sub>FSM</sub>	30			A				
Current Squared Time @1ms≤t≤8.3ms	l <sup>2</sup> t	3.735			A²s				

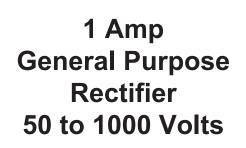
# Marking code

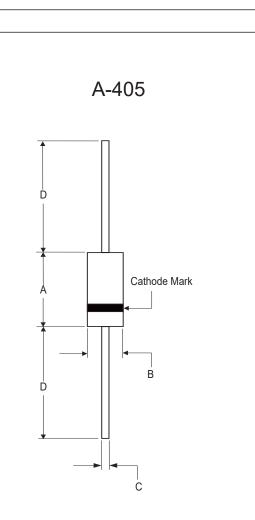
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Part Number	Marking Code
RL101GP	RL101
RL102GP	RL102
RL103GP	RL103
RL104GP	RL104
RL105GP	RL105
RL106GP	RL106
RL107GP	RL107

## **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 <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-A)</sub>	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 <sub>F</sub>	I <sub>F</sub> =1A;T <sub>J</sub> =25°C			1.1	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> =125°C			5 50	μA
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		6		pF





## **Curve Characteristics**

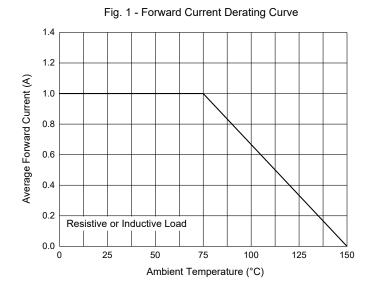
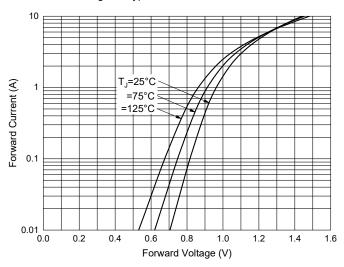
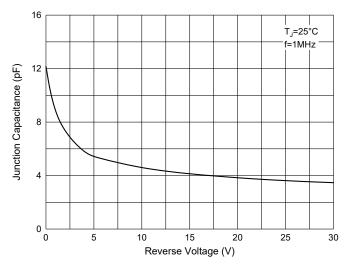


Fig. 3 - Typical Forward Characteristics







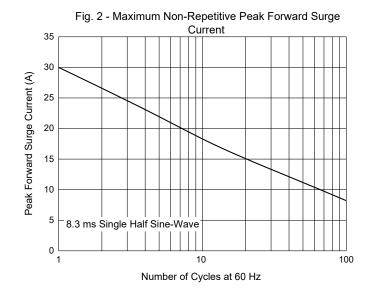
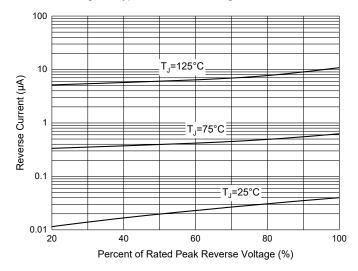


Fig. 4 - Typical Reverse Leakage Characteristics





### **Ordering Information**

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

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

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