

Features

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

1.0 Amp Rectifier 50 to 1000 Volts

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

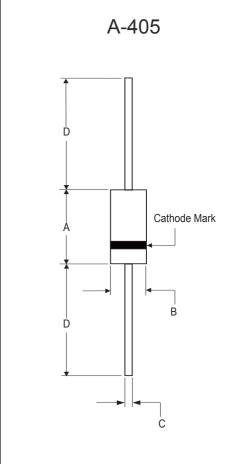
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL101GP	RL101	50V	35V	50V
RL102GP	RL102	100V	70V	100V
RL103GP	RL103	200V	140V	200V
RL104GP	RL104	400V	280V	400V
RL105GP	RL105	600V	420V	600V
RL106GP	RL106	800V	560V	800V
RL107GP	RL107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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A = 75°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°C*	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V	

^{*}Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

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



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	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			



Curve Characteristics

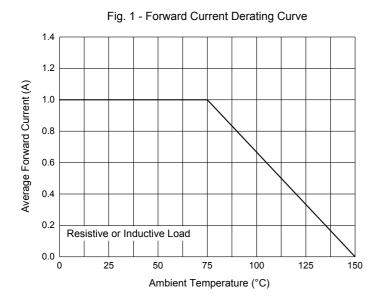
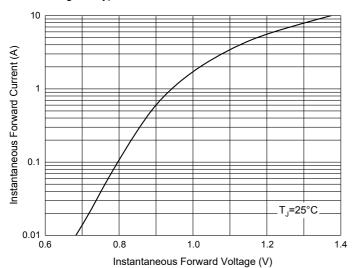


Fig. 3 - Typical Instantaneous Forward Characteristics



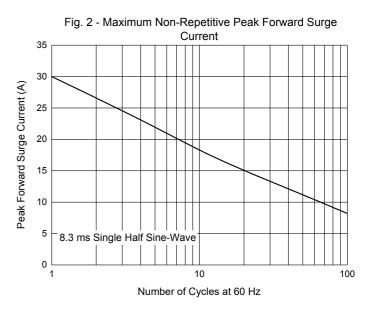
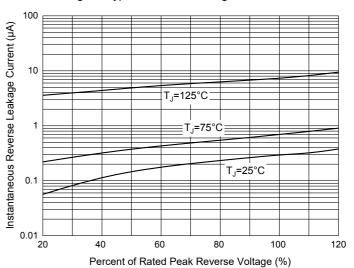


Fig. 4 - Typical Reverse Leakage Characteristics





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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