

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking Voltage
		Voltage		vollage
RL101	RL101	50V	35V	50V
RL102	RL102	100V	70V	100V
RL103	RL103	200V	140V	200V
RL104	RL104	400V	280V	400V
RL105	RL105	600V	420V	600V
RL106	RL106	800V	560V	800V
RL107	RL107	1000V	700V	1000V

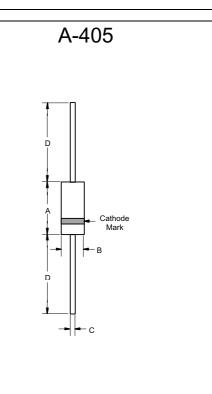
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	5.0μΑ 50μΑ	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 Exemptions Applied, see EU Directive Annex 7.

RL101 THRU **RL107**

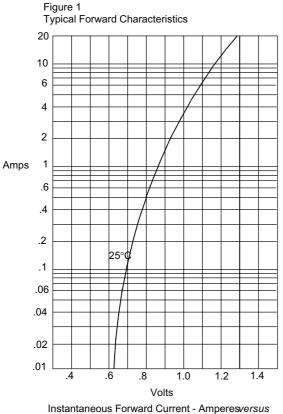
1 Amp Rectifier 50 - 1000 Volts



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	.166	.205	4.10	5.20	
В	.080	.107	2.00	2.70	
С		.024		.60	
D	1.000		25.40		

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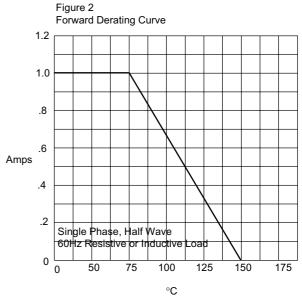
RL101 thru RL107



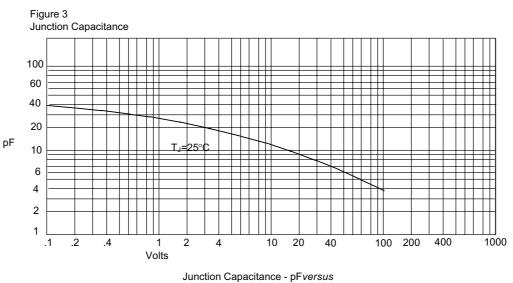
Instantaneous Forward Voltage - Volts



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Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^{\circ}\text{C}$



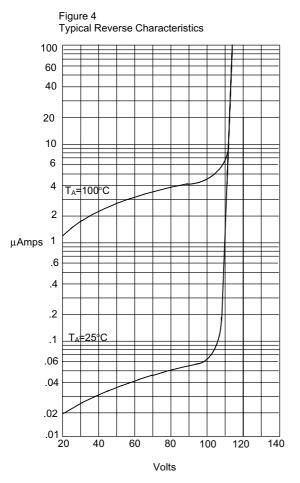
Reverse Voltage - Volts

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RL101 thru RL107



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0 1 2 4 6 8 10 20 40 60 80 100 Cycles

Figure 5

60

50

40

30

20

10

Amps

Peak Forward Surge Current

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

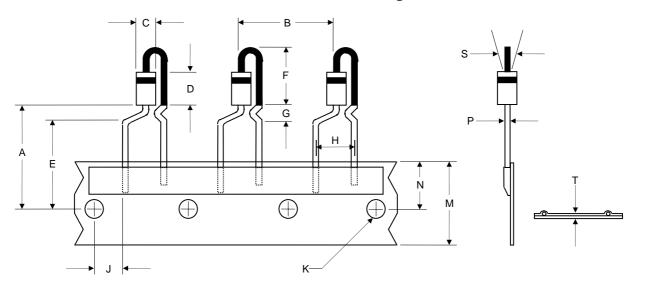




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A-405 Outline Only



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.709	.748	18.0	20.0	
В	.460	.540	11.7	13.7	
С		.106		2.7	
D		.205		5.2	
E	.610	.650	15.5	16.5	
F		.354		9.0	
G		.177		4.5	
Н	.177	.217	4.5	5.5	
J	.124	.179	3.15	4.55	
K	.146	.169	3.7	4.3	
М	.677	.748	17.2	19.0	
Ν	.343	.384	8.70	9.75	
Р	.021	.025	.54	.64	
S		±.079		±2.0	
Т	.016	.031	. 4	.8	

PACKING METHODS

P/N EXAMPLE: A=N:PANASERT

B = 0: NON INSULATION COATING---LEAD FIRST OUT.

<u>A B C</u>

- 1: INSULATION COATING ----LEAD FIRST OUT.
- 2: NON INSULATION COATING ---BODY FIRST OUT.
- 3: INSULATION COATING ----BODY FIRST OUT.
- C = 1: FOR CATHODE DOWN, IN BULK.
 - 2: FOR CATHODE UP, IN BULK.
 - 3: FOR CATHODE DOWN, IN REEL.
 - 4: FOR CATHODE UP, IN REEL

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
RL101~RL107-A-B-C-AP(See page 4 for A/B/C suffix details)	Ammo Packing: 2Kpcs/Ammo Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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