Micro Commercial Components
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RL251GP THRU RL257GP

2.5 Amp Glass Passivated Rectifier 50-1000 Volts

Features

- 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)
- 2.5 ampere operation at T_A=55°C with no thermal runaway
- Glass passivated junction in R-3 package

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 25°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL251GP	---	50V	35V	50V
RL252GP	---	100V	70V	100V
RL253GP	---	200V	140V	200V
RL254GP	---	400V	280V	400V
RL255GP	---	600V	420V	600V
RL256GP	---	800V	560V	800V
RL257GP	---	1000V	700V	1000V

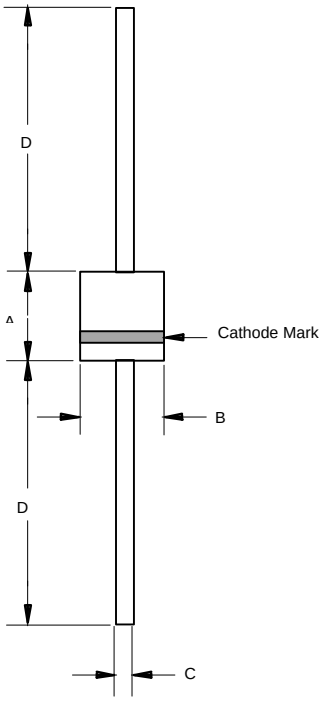
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.5A	T_A=55°C
Peak Forward Surge Current	I_{FSM}	70A	8.3mS Sina half
Maximum Instantaneous Forward Voltage	V_F	1.1V	T_A=25°C, I_F=2.5A
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 50uA	T_A=25°C T_A=100°C
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz; V_R=4.0V

*Pulse test: Pulse width 300 sec, Duty cycle 1%

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

R-3



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	-----	0.160	-----	4.10	
B	-----	0.160	-----	4.10	
C	0.040	0.042	1.01	1.07	
D	1.000	-----	25.40	-----	

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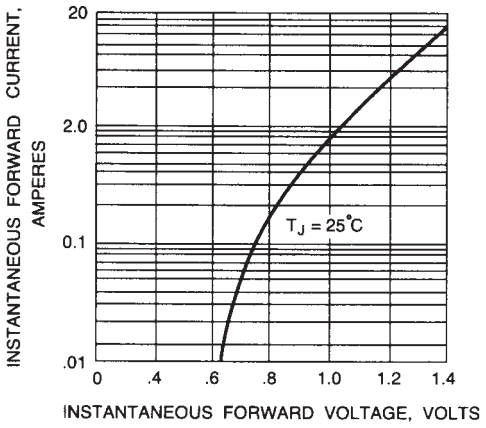


Fig. 1 – TYPICAL FORWARD CHARACTERISTICS

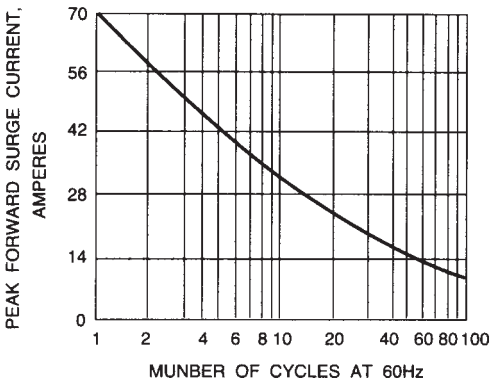


Fig. 2 – PEAK FORWARD SURGE CURRENT

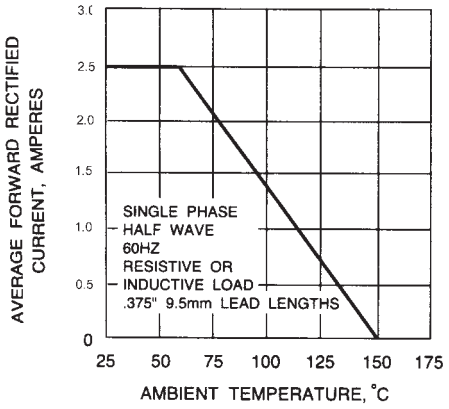


Fig. 3 – FORWARD CURRENT DERATING CURVE

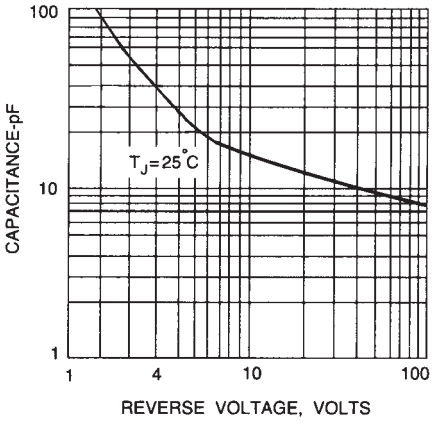


Fig. 4 – TYPICAL JUNCTION CAPACITANCE

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-BP	Bulk: 25Kpcs/Carton

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