

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Glass Passivated Junction
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

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

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

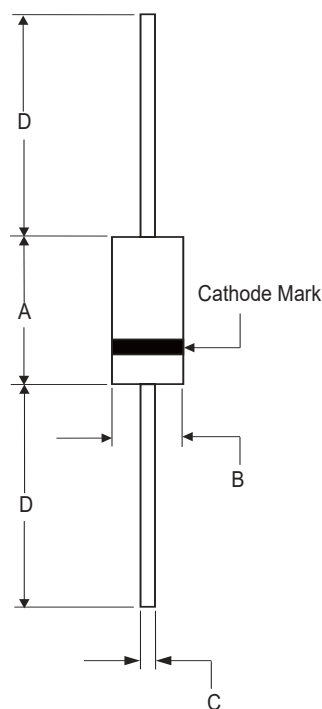
Average Forward Current	$I_{F(AV)}$	2.5A	$T_A = 75^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	70A 200A	8.3ms, Half Sine Wave 1ms, Square Wave
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_F = 2.5\text{A};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA 50 μA	$T_J = 25^\circ\text{C};$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz $V_R = 4.0\text{V}$
Rating for Fusing	I^2t	20A ² S	1ms $\leq t < 8.3\text{ms}$

*Pulse Test: Pulse Width 300 μsec , Duty Cycle 1%

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

2.5 Amp Glass Passivated Rectifier 50 to 1000 Volts

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	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

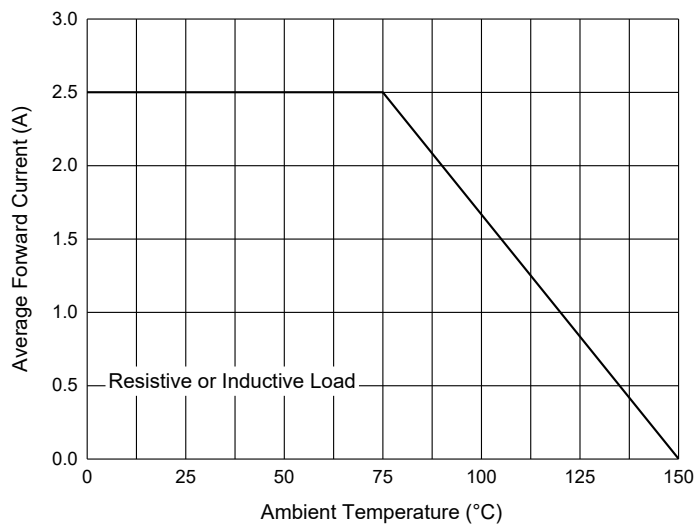


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

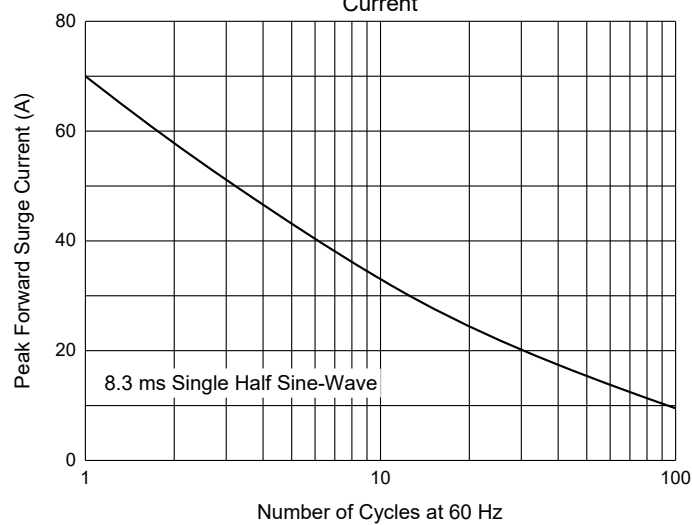


Fig. 3 - Typical Instantaneous Forward Characteristics

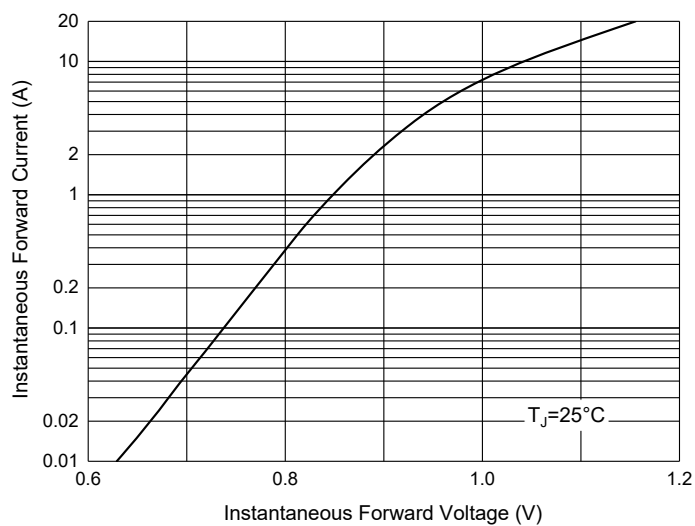
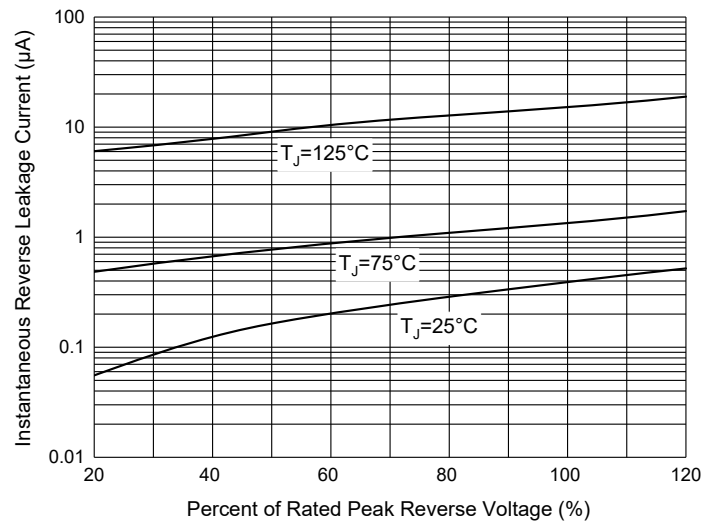


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel
Part Number-BP	Bulk: 500Pcs/Box,25Kpcs/Carton

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

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