

Features

- Low Leakage
- High Current Capability
- Glass Passivated Junction
- 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)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 45°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL257GPL	RL257GPL	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

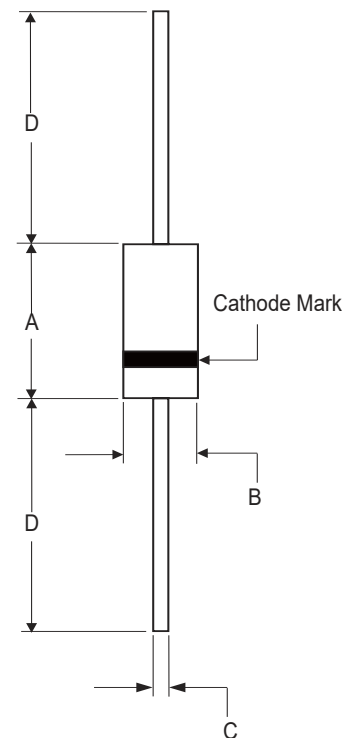
Average Forward Current	$I_{F(AV)}$	2.5A	$T_A=75^\circ\text{C}$
Forward Surge Current (Non-repetitive)	I_{FSM}	120A 240A	8.3ms, Half Sine Wave 1ms, Square Wave
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM}=2.5\text{A};$ $T_J=25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	2.5 μA 50 μA	$T_J=25^\circ\text{C};$ $T_J=100^\circ\text{C}$
Typical Junction Capacitance	C_J	22pF	Measured at 1.0MHz, $V_R=4.0\text{V}$
Current Squared Time	I^2t	60A ² s	1ms \leq t \leq 8.3ms

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

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

2.5 Amp Rectifier 1000 Volts

DO-15



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.230	0.300	5.80	7.60	
B	0.104	0.140	2.60	3.60	
C	0.026	0.035	0.70	0.90	
D	1.000	-----	25.40	-----	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

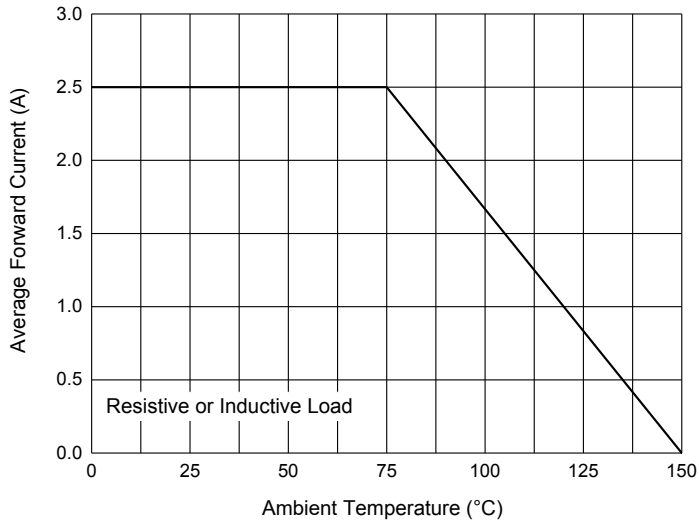


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

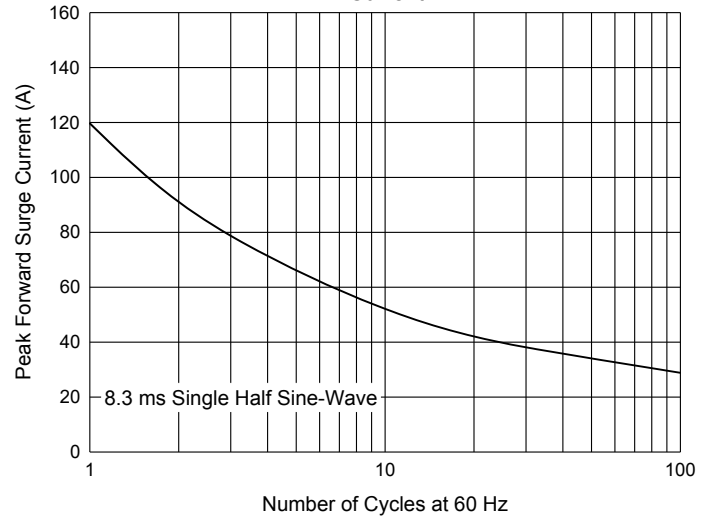


Fig. 3 - Typical Instantaneous Forward Characteristics

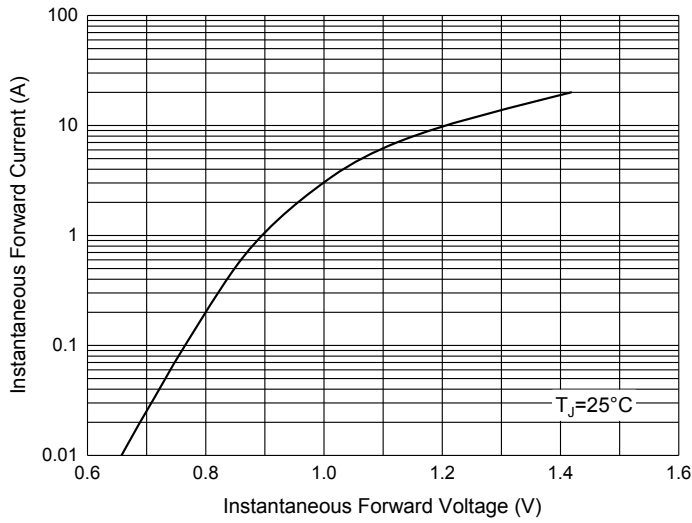
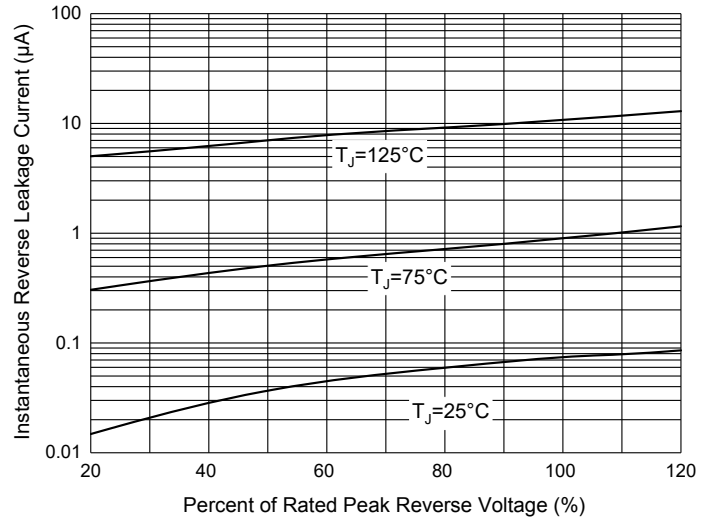


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box
(Part Number)-BP	Bulk:500pcs/Box,25Kpcs/Carlton

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

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