

Features

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)

2 Amp Silicon Rectifier 50 to 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 40°C/W Junction to Ambient

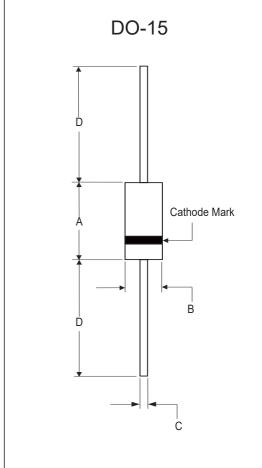
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
RL201	RL201	50V	35V	50V
RL202	RL202	100V	70V	100V
RL203	RL203	200V	140V	200V
RL204	RL204	400V	280V	400V
RL205	RL205	600V	420V	600V
RL206	RL206	800V	560V	800V
RL207	RL207	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2A	T _A =75°C	
Peak Forward Surge Current	I _{FSM}	60A	8.3ms,half sine	
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} =2.0A; T _J =25°C*	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J =25°C; T _J =100°C	
Typical Junction Capacitance	CJ	20pF	Measured at 1.0MHz, V _R =4.0V	

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

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



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.230	0.300	5.80	7.60		
В	0.104	0.140	2.60	3.60		
С	0.026	0.035	0.70	0.90		
D	1.000		25.40			



Curve Characteristics

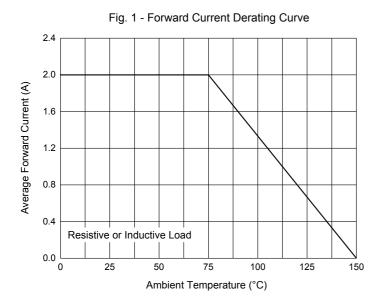


Fig. 3 - Typical Instantaneous Forward Characteristics

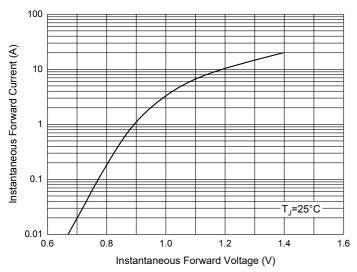


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

70

60

40

30

20

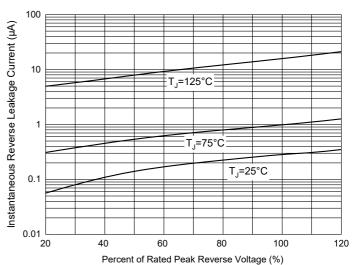
10

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

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/Carton		

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

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