THE DATASHEET OF

DL4007

NOT RECOMMENDED FOR NEW DESIGNS
USE GS1A-LTP~GS1M-LTP SERIES

Micro Commercial Components

Micro Commercial Components
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DL4001 THRU DL4007

1 Amp Glass Passivated Rectifier 50 to 1000 Volts

Features

- Glass Passivated Junction
- Low Current Leakage
- Surface Mount Applications
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- A part number suffix "P" means RoHs Compliant

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

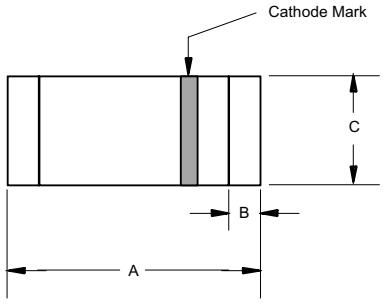
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DL4001	-------	50V	35V	50V
DL4002	-------	100V	70V	100V
DL4003	-------	200V	140V	200V
DL4004	-------	400V	280V	400V
DL4005	-------	600V	420V	600V
DL4006	-------	800V	560V	800V
DL4007	-------	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	5.0µA 50µA	T_J = 25°C T_J = 125°C
Typical Junction Capacitance	C_J	12pF	Measured at 1.0MHz, V_R=4.0V

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

MELF



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.185	.205	4.70	5.20	
B	.018	.022	0.46	0.56	Nominal
C	.095	.105	2.40	2.67	∅

SUGGESTED SOLDER PAD LAYOUT

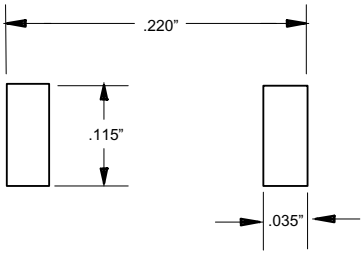
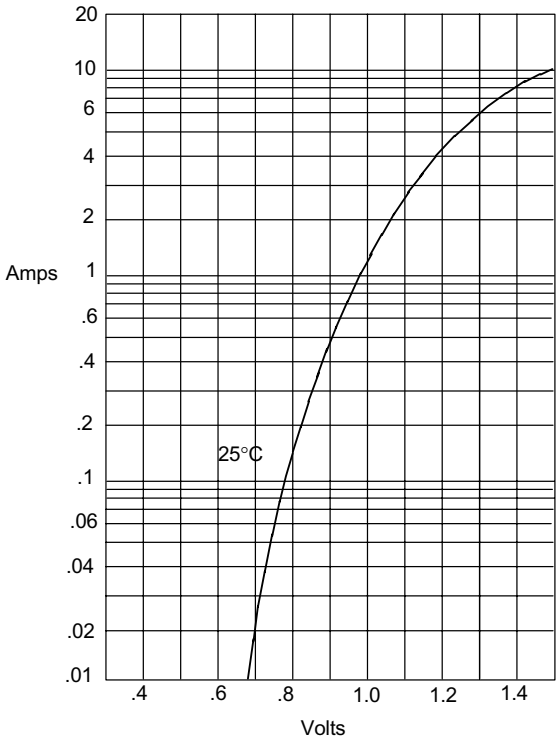
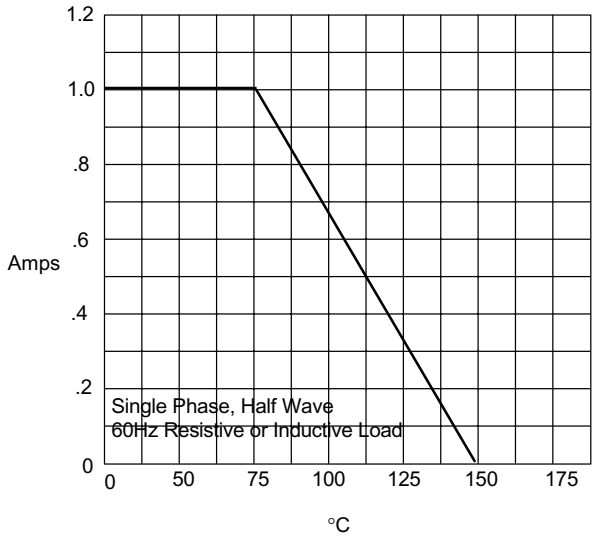


Figure 1
Typical Forward Characteristics



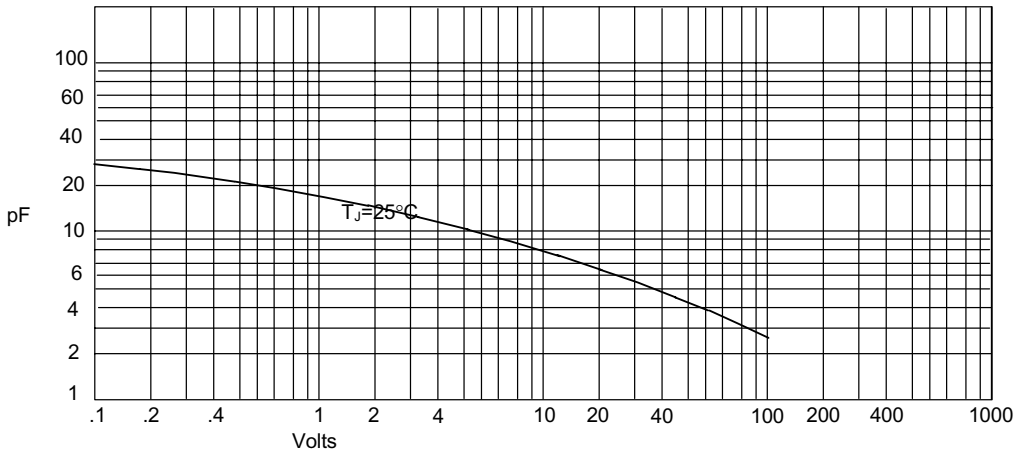
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;5Kpcs/Reel

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