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





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**DL4001 THRU DL4007** 

# **Features**

- Glass Passivated Junction
- Low Current Leakage
- Surface Mount Applications Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## imum Ratings

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

		Maximum		Maximum
MCC	Device	Recurrent	Maximum	DC
Part Number	Marking	Peak	RMS	Blocking
		Reverse	Voltage	Voltage
		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

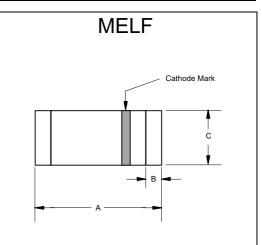
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	T <sub>A</sub> = 75°C	
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine	
Maximum Instantaneous Forward Voltage	$V_{F}$	1.1V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 50μA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C	
Typical Junction Capacitance	CJ	12pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V	

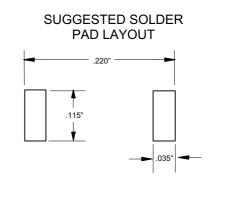
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

# 1 Amp Glass **Passivated Rectifier** 50 to 1000 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.185	.205	4.70	5.20		
В	.018	.022	0.46	0.56	Nominal	
С	.095	.105	2.40	2.67	Ø	

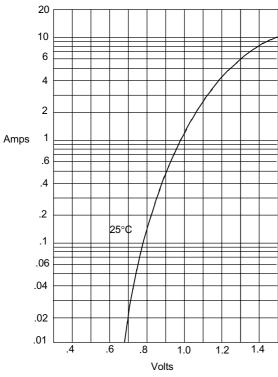


# DL4001 thru DL4007

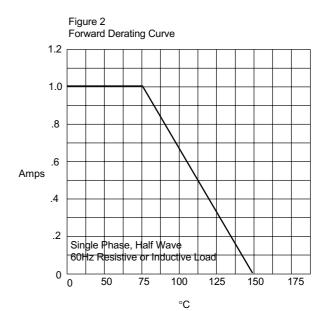


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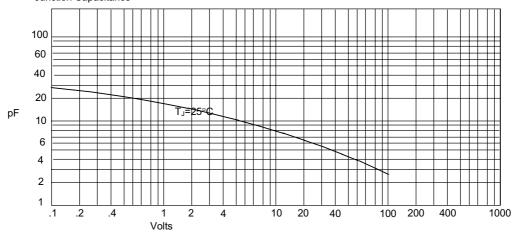


Instantaneous Forward Current - Amperes *versus*Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus Ambient Temperature -  $^{\circ}C$ 





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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