

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# DL4001 THRU DL4007

## **Features**

- Glass Passivated Junction
- Low Current Leakage
- Surface Mount Applications
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

## 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

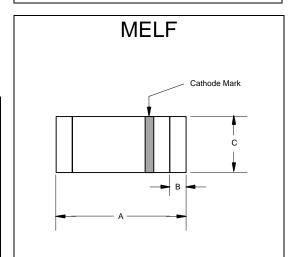
		Maximum		Maximum
MCC	Device	Recurrent	Maximum	DC
Part Number	Marking	Peak	RMS	Blocking
		Reverse	Voltage	Voltage
		Voltage		
DL4001		50V	35V	50V
DL4002		100V	70V	100V
DL4003		200V	140V	200V
DL4004		400V	280V	400V
DL4005		600V	420V	600V
DL4006		800V	560V	800V
DL4007		1000V	700V	1000V

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

Average Forward Current	I <sub>F(AV)</sub>	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 <sub>F</sub>	1.1V	$I_{FM} = 1.0A;$ $T_J = 25^{\circ}C^{*}$
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	C <sub>J</sub>	12pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

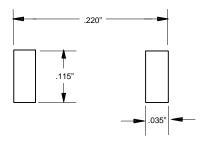
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

# 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		

#### SUGGESTED SOLDER PAD LAYOUT

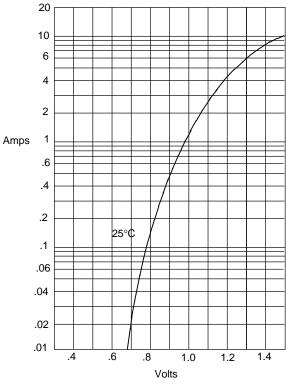


## DL4001 thru DL4007

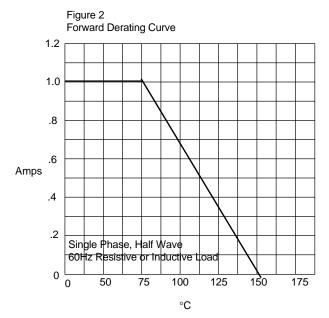


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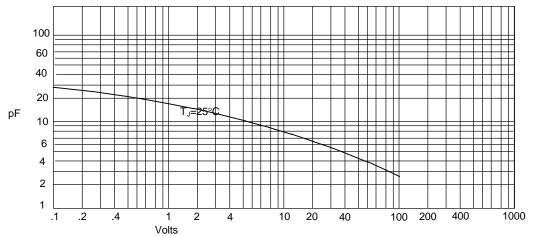


Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts



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





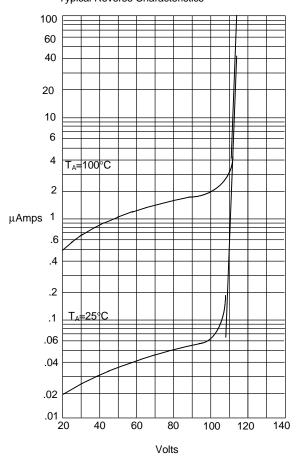
Junction Capacitance - pF *versus* Reverse Voltage - Volts

## DL4001 thru DL4007

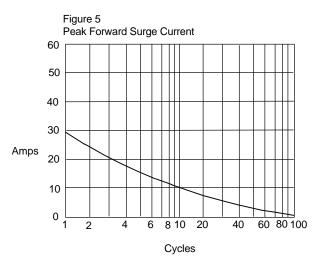


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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles



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