

# DL4001 - DL4007

## 1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

#### **Features**

Glass Passivated Junction High Current Capability Low Forward Voltage Drop Low Leakage Current

Lead Free Finish/RoHS Compliant Version (Note 2)



### **Mechanical Data**

Case: MELF

Case Material: Molded Plastic. UL Flammability

Classification Rating 94V-0

Terminals: Solderable per MIL-STD-202,

Method 208 (e3)

Lead Free Plating (Matte Tin Finish).

Polarity: Cathode Band Marking: Cathode Band Only Approximate Weight: 0.25 grams

MELF						
Dim	Min Max					
Α	4.80	5.20				
В	2.60	2.64				
С	0.55 Nominal					
All Dimensions in mm						

# Maximum Ratings and Electrical Characteristics @ TA = 25 C unless otherwise specified

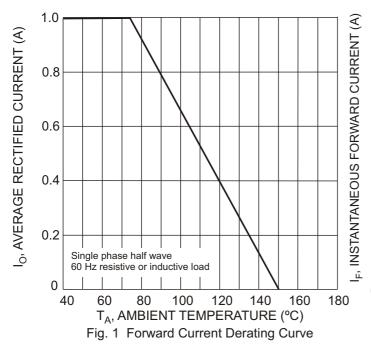
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

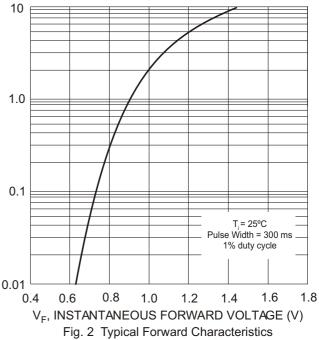
Characteristic	Symbol	DL 4001	DL 4002	DL 4003	DL 4004	DL 4005	DL 4006	DL 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	71	141	283	424	566	707	٧
Average Forward Rectified Current @ T <sub>T</sub> = 75 C	, lo	1.0					Α		
Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on Rated Load		30					А		
Maximum Forward Voltage @ I <sub>F</sub> = 1.0A	V <sub>FM</sub>	1.1				٧			
	I DM	5.0 50				А			
Typical Thermal Resistance, Junction to Ambient Air	R JA	50					C/W		
Typical Total Capacitance (Note 1)		15					pF		
Operating and Storage Temperature Range		-55 to +150					С		

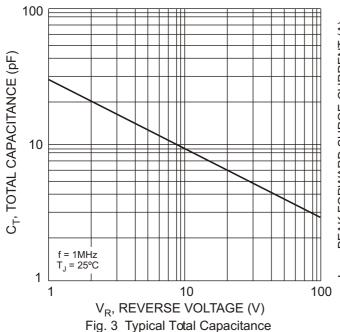
Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
- 2. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7*.

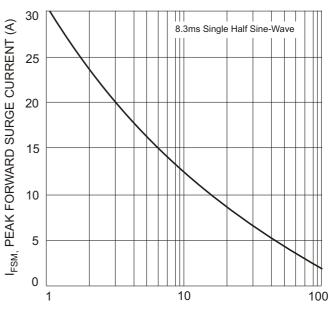








vs. Reverse Voltage



NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Forward Surge Current

## **Ordering Information**

Device	Packaging	Shipping
DL4001-13-F	MELF	5,000/Tape & Reel
DL4002-13-F	MELF	5,000/Tape & Reel
DL4003-13-F	MELF	5,000/Tape & Reel
DL4004-13-F	MELF	5,000/Tape & Reel
DL4005-13-F	MELF	5,000/Tape & Reel
DL4006-13-F	MELF	5,000/Tape & Reel
DL4007-13-F	MELF	5,000/Tape & Reel



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