

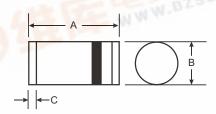
# DL4001 - DL4007

### 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

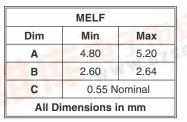
Classification Rating 94V-0

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



## 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%.

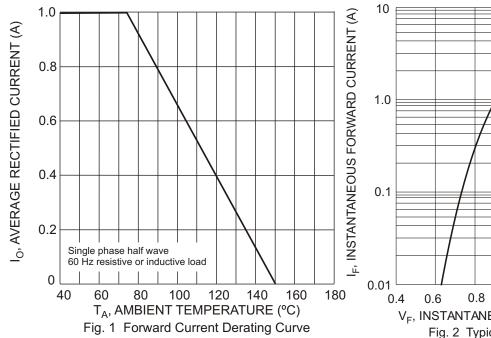
Symbol	DL 4001	DL 4002	DL 4003	DL 4004	DL 4005	DL 4006	DL 4007	Unit
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
V <sub>R(RMS)</sub>	35	71	141	283	424	566	707	V
Io				1.0			177	Α
I <sub>FSM</sub>				30	7	TP)	COP	Α
$V_{FM}$			- 17	1.1	Tar W.	612.		V
I <sub>RM</sub>	5.0 50			А				
R JA	50			C/W				
C <sub>T</sub>	15			pF				
T <sub>j</sub> , T <sub>STG</sub>	-55 to +150			С				
	VRRM VRWM VR VR(RMS) IO IFSM VFM IRM R JA CT	Very Name         Very Name <t< td=""><td>Symbol         4001         4002           VRRM VRWM VR         50         100           VR(RMS)         35         71           Io         IFSM           VFM         IRM           R JA         CT</td><td>Symbol         4001         4002         4003           VRRM VRWM VR         50         100         200           VR(RMS)         35         71         141           Io         IFSM         VFM           IRM         R JA         CT</td><td>Symbol         4001         4002         4003         4004           VRRM VRWM VR         50         100         200         400           VR(RMS)         35         71         141         283           Io         1.0           IFSM         30           VFM         1.1           IRM         5.0           R JA         50           CT         15</td><td>Symbol         4001         4002         4003         4004         4005           VRRM VRWM VR         50         100         200         400         600           VR(RMS)         35         71         141         283         424           Io         1.0           IFSM         30         30           VFM         1.1         5.0         50           R JA         50         50         50           CT         15         50         50</td><td>Symbol         4001         4002         4003         4004         4005         4006           VRRM VRWM VR         50         100         200         400         600         800           VR(RMS)         35         71         141         283         424         566           Io         1.0           IFSM         30         30           VFM         1.1         5.0         50           R JA         50         50         50           CT         15         50         50</td><td>Symbol         4001         4002         4003         4004         4005         4006         4007           VRRM VRWM VR         50         100         200         400         600         800         1000           VR(RMS)         35         71         141         283         424         566         707           I<sub>C</sub>         30         <td< td=""></td<></td></t<>	Symbol         4001         4002           VRRM VRWM VR         50         100           VR(RMS)         35         71           Io         IFSM           VFM         IRM           R JA         CT	Symbol         4001         4002         4003           VRRM VRWM VR         50         100         200           VR(RMS)         35         71         141           Io         IFSM         VFM           IRM         R JA         CT	Symbol         4001         4002         4003         4004           VRRM VRWM VR         50         100         200         400           VR(RMS)         35         71         141         283           Io         1.0           IFSM         30           VFM         1.1           IRM         5.0           R JA         50           CT         15	Symbol         4001         4002         4003         4004         4005           VRRM VRWM VR         50         100         200         400         600           VR(RMS)         35         71         141         283         424           Io         1.0           IFSM         30         30           VFM         1.1         5.0         50           R JA         50         50         50           CT         15         50         50	Symbol         4001         4002         4003         4004         4005         4006           VRRM VRWM VR         50         100         200         400         600         800           VR(RMS)         35         71         141         283         424         566           Io         1.0           IFSM         30         30           VFM         1.1         5.0         50           R JA         50         50         50           CT         15         50         50	Symbol         4001         4002         4003         4004         4005         4006         4007           VRRM VRWM VR         50         100         200         400         600         800         1000           VR(RMS)         35         71         141         283         424         566         707           I <sub>C</sub> 30         30 <td< td=""></td<>

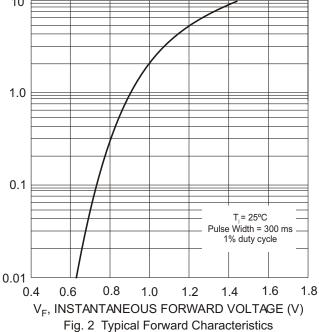
Notes:

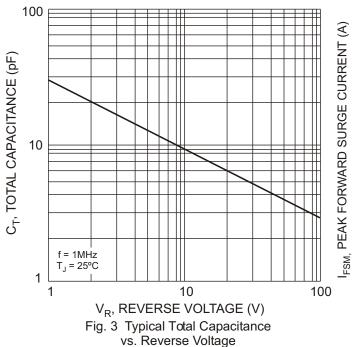
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
- 2. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

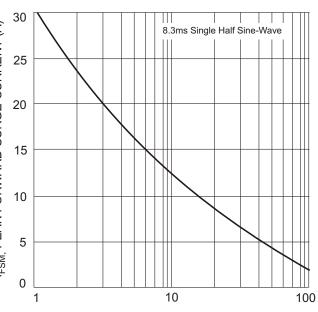












NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Forward Surge Current

# **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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