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DL4001 - DL4007

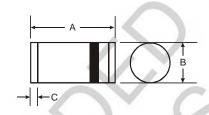
1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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 (3)
- 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	2.40	2.60			
С	0.55 Nominal				
	nensions				

Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

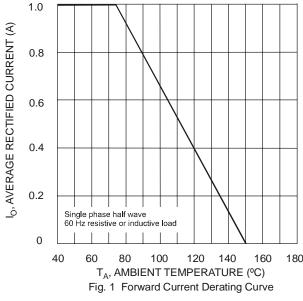
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

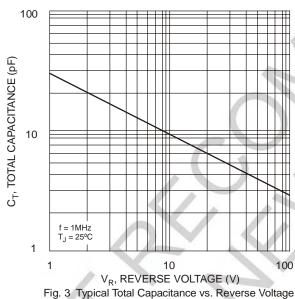
Characteristic	Symbol	DL 4001	DL 4002	DL 4003	DL 4004	DL 4005	DL 4006	DL 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	71	141	283	424	566	707	V
Average Forward Rectified Current @ T _T = 75°C	lo		-		1.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on Rated Load	I _{FSM}				30				Α
Maximum Forward Voltage @ I _F = 1.0A	V _{FM}				1.1				V
	I _{RM}	5.0 50				μА			
Typical Thermal Resistance, Junction to Ambient Air	$R_{ heta JA}$				50				°C/W
Typical Total Capacitance (Note 1)	Ст				15				pF
Operating and Storage Temperature Range	T _{j,} T _{STG}			-{	55 to +15	50			°C

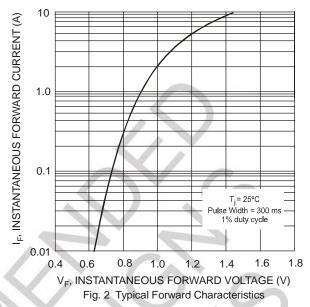
Notes:

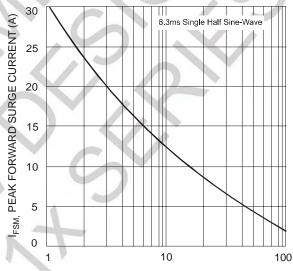
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
- 2. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.











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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Mouser Electronics

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