

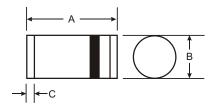


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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, **e**3

Method 208

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

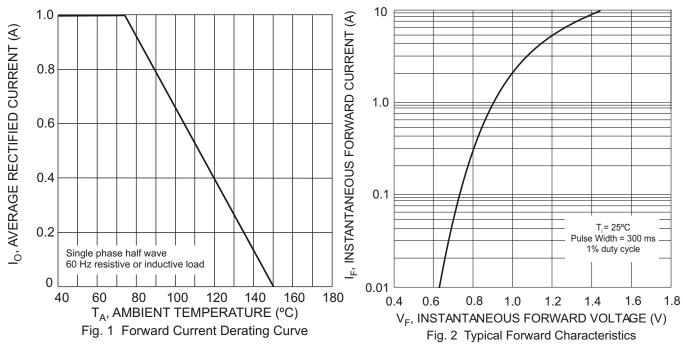
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

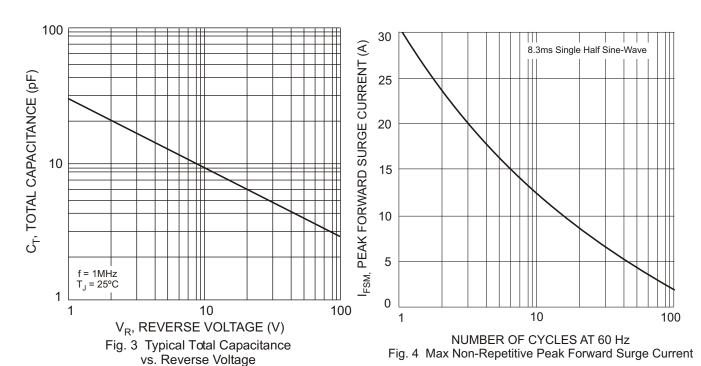
Characteristic	Symbol	DL 4001	DL 4002	DL 4003	DL 4004	DL 4005	DL 4006	DL 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	71	141	283	424	566	707	V
Average Forward Rectified Current @ T _T = 75 (o lo	1.0					А		
Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on Rated Load		30					Α		
Maximum Forward Voltage @ I _F = 1.0	A V _{FM}	1.1					V		
Maximum DC Reverse Current @ T _A = 25 0 @ Rated DC Blocking Voltage @ T _A = 100 0	I IDM	5.0 50			А				
Typical Thermal Resistance, Junction to Ambient Air		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.







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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