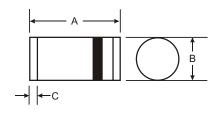


1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Junction
- High Current Capability
- Low Forward Voltage Drop
- Low Leakage Current
- Available in 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
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 3, on Page 2
- Polarity: Cathode Band
- Approx Weight: 0.25 grams
- Marking: Cathode Band Only

MELF Dim Min Max A 4.80 5.20 B 2.60 2.64 C 0.55 Nominal All Dimensions in mm

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

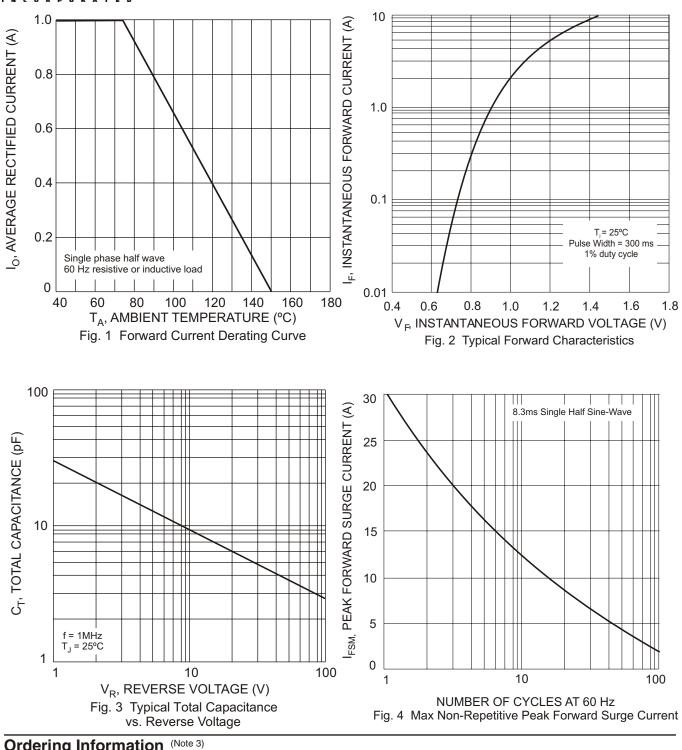
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 @ $T_T = 75^{\circ}C$	Io	1.0			А				
Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on Rated Load	I _{FSM}	30			А				
Maximum Forward Voltage @ I _F = 1.0A	VFM	1.1		V					
Maximum DC Reverse Current@ $T_A = 25^{\circ}C$ @ Rated DC Blocking Voltage@ $T_A = 100^{\circ}C$	I _{RM}	5.0 50			μA				
Typical Thermal Resistance, Junction to Ambient Air	R _{0JA}				50				°C/W
Typical Total Capacitance (Note 1)	Ст				15				pF
Operating and Storage Temperature Range	T _j , T _{STG}			-	55 to +15	0			°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.





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

Note: 3. For Lead Free Finish/RoHS Compliant version part number, please add "-F" suffix to the part number above. Example: DL4005-13-F.