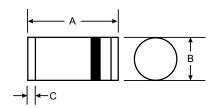


# **DL4001 - DL4007**

### 1.0A SURFACE MOUNT GLASS PASSIVATED RECTIFIER

### **Features**

- Glass Passivated Junction
- High Current Capability
- Low Forward Voltage Drop
- High Reliability and Low Leakage
- For Surface Mount Application
- Plastic Material UL Flammability Classification Rating 94V-0



### **Mechanical Data**

Case: MELF, Plastic

• Terminals: Solderable per MIL-STD-202,

Method 208

Polarity: Cathode bandApprox Weight: 0.25 gramsMounting Position: Any

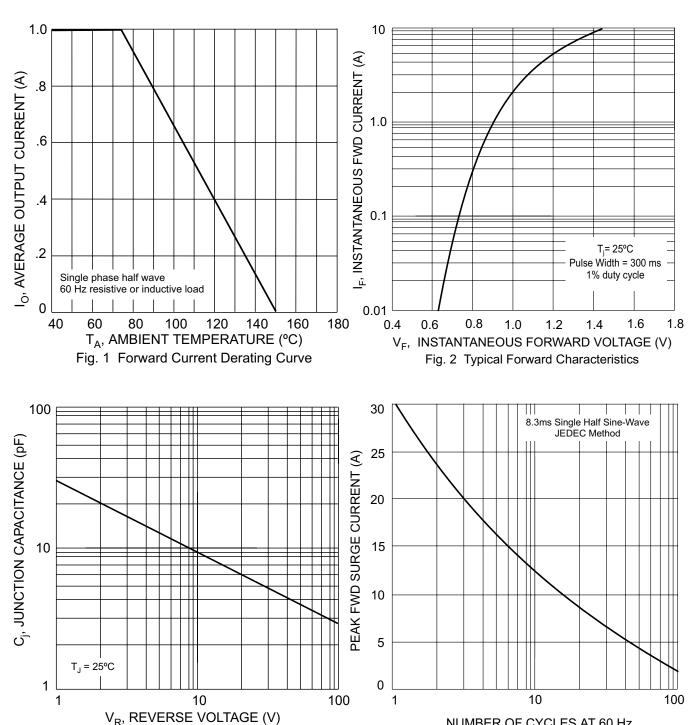
# MELF Dim Min Max A 4.80 5.20 B 2.40 2.60 C 0.55 Nominal All Dimensions in mm

## 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 <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	71	141	283	424	566	707	V
Maximum Average Forward Rectified Current @ Terminal Temp @ T <sub>T</sub> = 75°C	Io	1.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							Α
Maximum Forward Voltage @ I <sub>F</sub> = 1.0A	VF	1.1							V
	I <sub>R</sub>	5.0 50							μА
Typical Thermal Resistance, Junction to Ambient Air	R <sub>θJA</sub>	50					K/W		
Typical Junction Capacitance (Note 1)	Cj	15				pF			
Operating and Storage Temperature Range	T <sub>j,</sub> T <sub>STG</sub>	-55 to +150						°C	

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.



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

Fig. 3 Typical Junction Capacitance