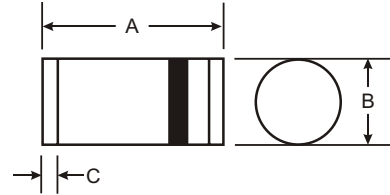


Features

- Glass Passivated Junction
- Low Leakage Current
- Low Forward Voltage Drop
- High Current Capability
- Available in Lead Free Finish/RoHS Compliant Version (Note 3)



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 4, 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 @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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

| Characteristic | Symbol | DL4933 | DL4934 | DL4935 | DL4936 | DL4937 | Units |
|--|---------------------------------|-------------|--------|--------|--------|--------|------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 50 | 100 | 200 | 400 | 600 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | V |
| Average Forward Rectified Current @ $T_T = 75^\circ\text{C}$ | I_O | 1.0 | | | | | A |
| Peak Forward Surge Current 8.3 ms half sine-wave superimposed on rated load | I_{FSM} | 30 | | | | | A |
| Maximum Instantaneous Forward Voltage @ $I_F = 1.0\text{A}$ | V_{FM} | 1.2 | | | | | V |
| Maximum DC Reverse Current at Rated Blocking Voltage | I_{RM} | 5.0 | | | | | μA |
| Maximum Full Load Reverse Current Full Cycle Average @ $T_T = 55^\circ\text{C}$ | I_R | 100 | | | | | μA |
| Maximum Reverse Recovery Time (Note 1) | t_{rr} | 200 | | | | | ns |
| Typical Total Capacitance (Note 2) | C_T | 15 | | | | | pF |
| Operating and Storage Temperature Range | T_J, T_{STG} | -65 to +150 | | | | | $^\circ\text{C}$ |

- Notes:
1. Reverse Recovery Test Conditions: $I_F = 1.0\text{A}$, $V_R = 30\text{V}$, $di/dt = 50\text{ A}/\mu\text{s}$.
 2. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V.
 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7*.

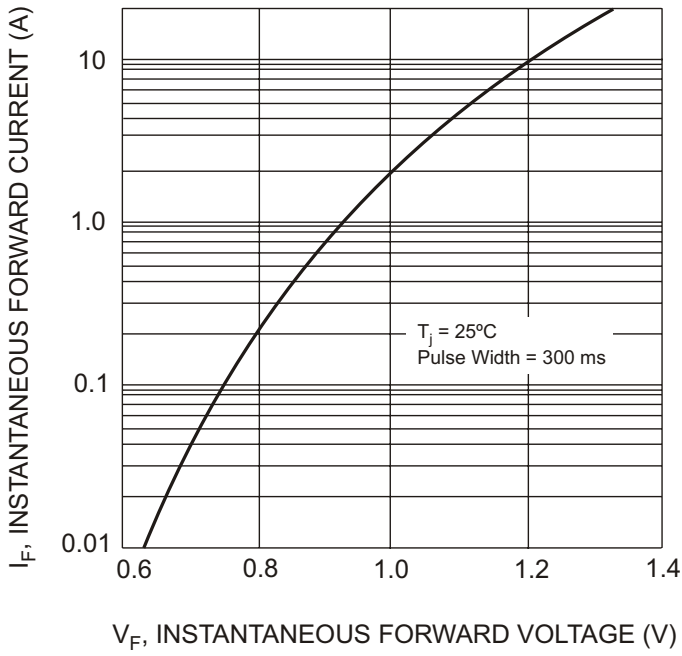


Fig. 1 Typical Forward Characteristics

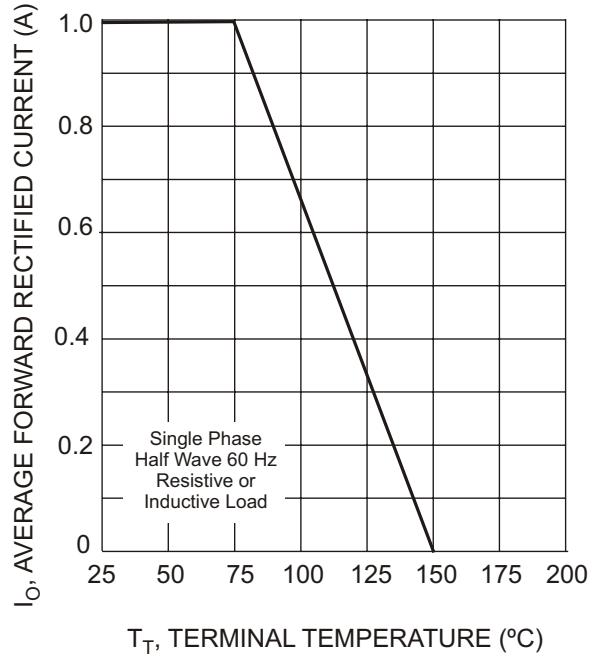


Fig. 2 Forward Derating Curve

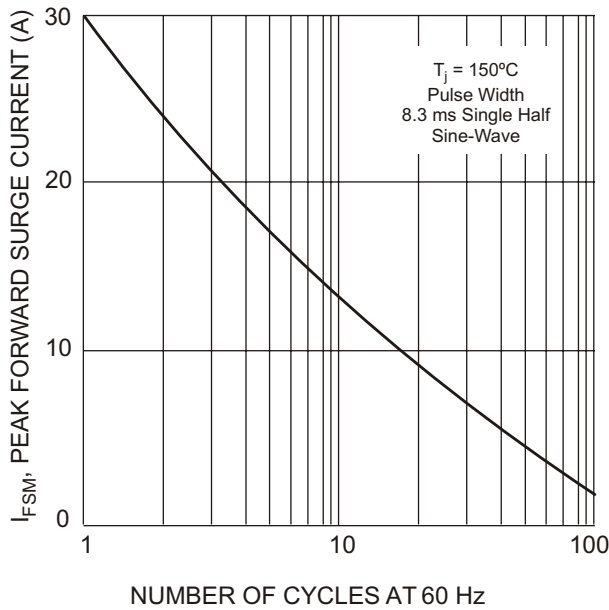


Fig. 3 Peak Fwd Surge Current vs Number of Cycles at 60 Hz

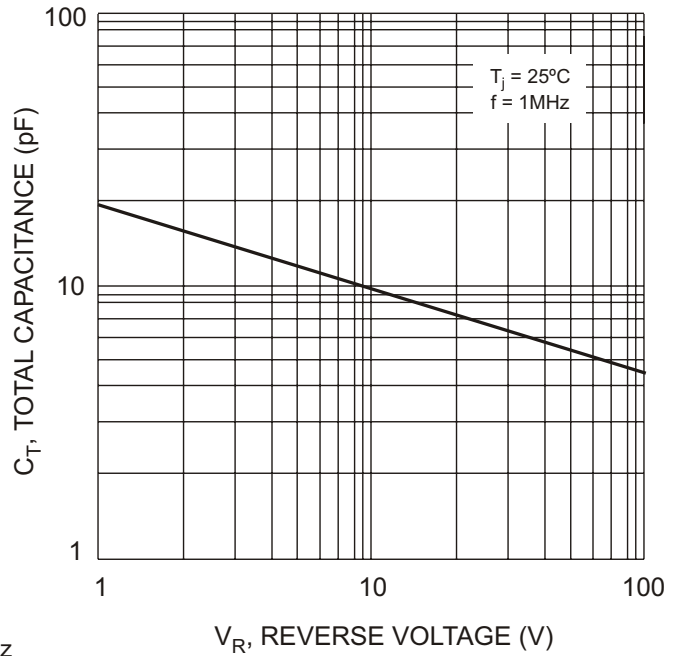


Fig. 4 Typical Total Capacitance vs Reverse Voltage

Ordering Information (Note 4)

| Device | Packaging | Shipping |
|-----------|-----------|-------------------|
| DL4933-13 | MELF | 5,000/Tape & Reel |
| DL4934-13 | MELF | 5,000/Tape & Reel |
| DL4935-13 | MELF | 5,000/Tape & Reel |
| DL4936-13 | MELF | 5,000/Tape & Reel |
| DL4937-13 | MELF | 5,000/Tape & Reel |

Note: 4. For Lead Free Finish/RoHS Compliant version part number, please add "-F" suffix to the part number above.
Example: DL4935-13-F.

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