



Micro Commercial Components
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DL4151

Schottky Barrier Switching Diode

Features

- Fast Switching Speed
- High Reverse Breakdown Voltage
- Low Forward Voltage Drop
- High Conductance

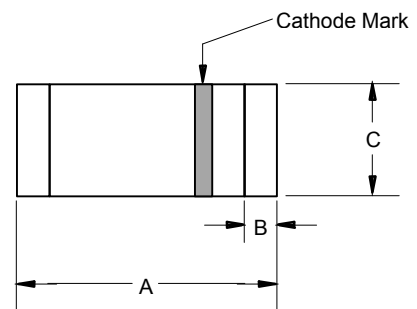
Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

| Characteristic | Symbol | DL4151 | Unit |
|-----------------------------------|----------------|------------|------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | |
| Working Peak Reverse Voltage | V_{RWM} | 75 | V |
| DC Blocking Voltage | V_R | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 50 | V |
| Forward Continuous Current(Note1) | I_{FM} | 500 | mA |
| Power Dissipation(Note 1) | P_d | 500 | mW |
| Thermal Resistance(Note 1) | R | 350 | K/W |
| Operation/Storage Temp. Range | T_j, T_{STG} | -55 to 150 | °C |

MINIMELF



| DIM | DIMENSION | | | | NOTE |
|-----|-----------|------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .134 | .142 | 3.40 | 3.60 | |
| B | .008 | .016 | 0.20 | 0.40 | |
| C | .055 | .059 | 1.40 | 1.50 | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Charateristic | Symbol | Min | Max | Unit | Test Cond. |
|-------------------------|----------|-------|-----|------|---|
| Reverse Leakage Current | I_{RM} | ----- | 50 | nA | $V_R=50V$ |
| Forward Volt. Drop | V_{FM} | ----- | 1 | V | $I_F=50mA$ |
| Junction Capacitance | C_j | ----- | 2.0 | pF | $V_R=0V, f=1.0MHz$ |
| Reverse Recovery Time | t_{rr} | ----- | 2.0 | ns | $I_F=10mA, I_R=1mA, V_R=6V, R_L=100OHM$ |

Note: 1. Valid provided that electrodes are kept at ambient temperature

SUGGESTED SOLDER PAD LAYOUT

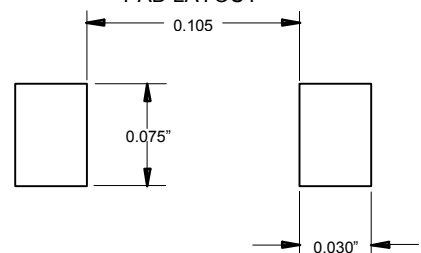
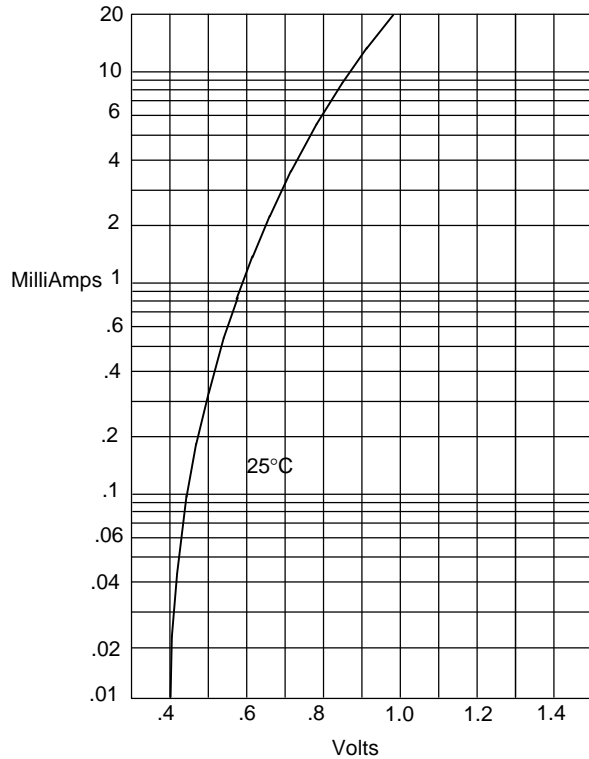
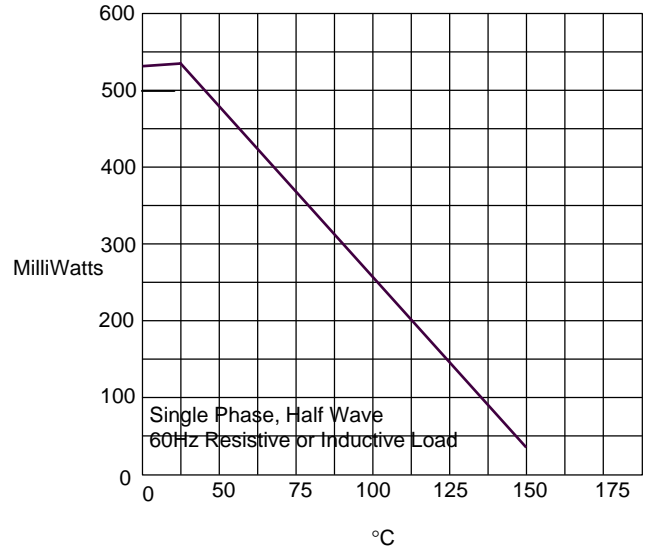


Figure 1
Typical Forward Characteristics



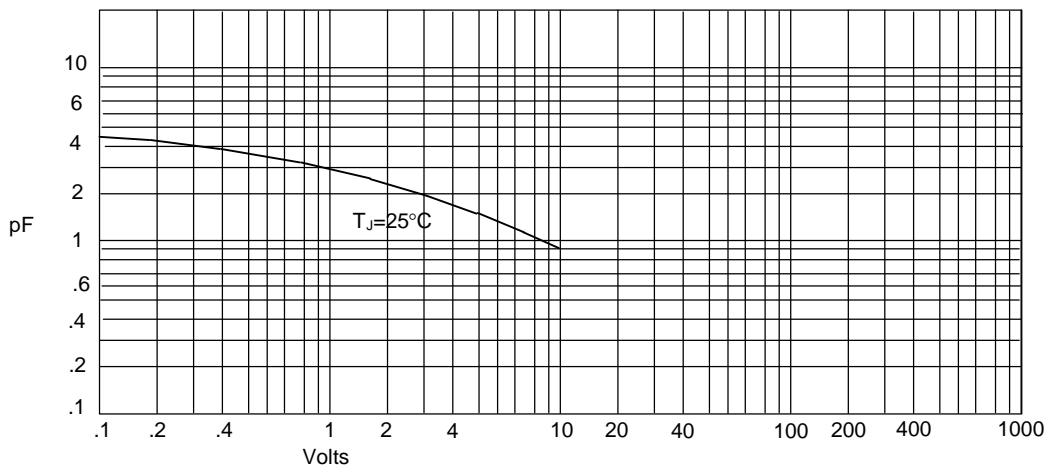
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



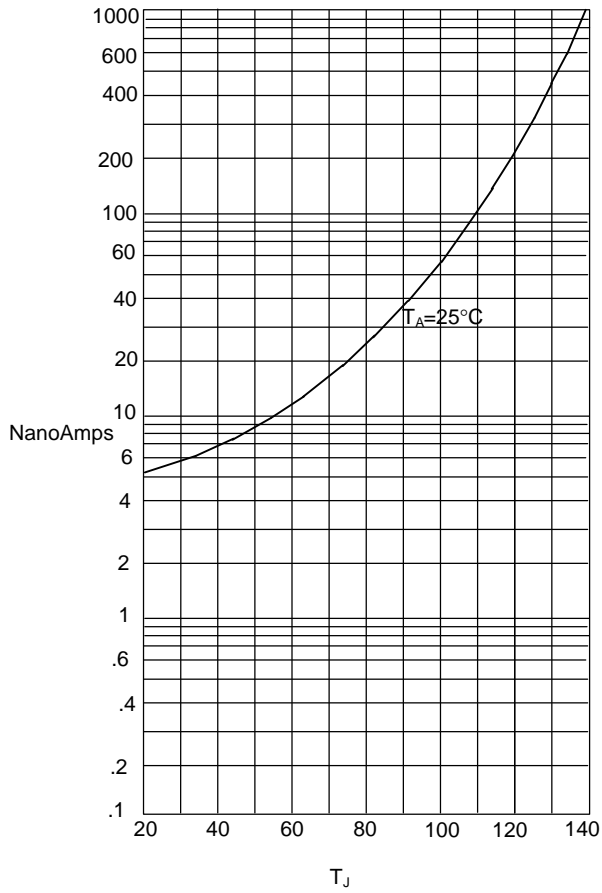
Admissible Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



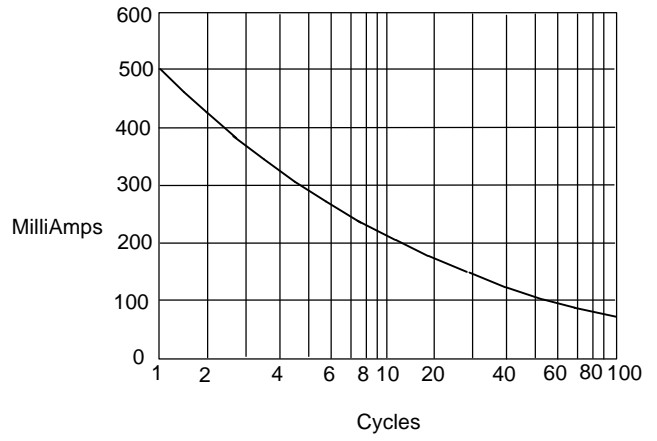
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes versus
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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