

|   |                |
|---|----------------|
|  | <b>E480232</b> |
|---|----------------|

**Features**

- Glass Passivated Junction and Excellent Clamping Capability
- Low Incremental Surge Resistance
- Excellent Clamping Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Mechanical Data**

- Weight: 0.045 ounce, 1.2 grams

**Maximum Ratings**

- For Parts Without A , the  $V_{BR}$  is  $\pm 20\%$
- Operating Junction Temperature Range:  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$
- Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$

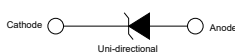
|  |             |              |                          |
|--|-------------|--------------|--------------------------|
| Peak Power Pulse Surger Current                      | $I_{PPM}$   | See theTable |                          |
| Peak Pulse Power Dissipation with 10/1000us waveform | $P_{PPM}$   | 1500W        | $T_A=25^{\circ}\text{C}$ |
| Steady State Power Dissipatoin                       | $P_{M(AV)}$ | 5.0 W        | $T_L=75^{\circ}\text{C}$ |

1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

**Device Marking:**

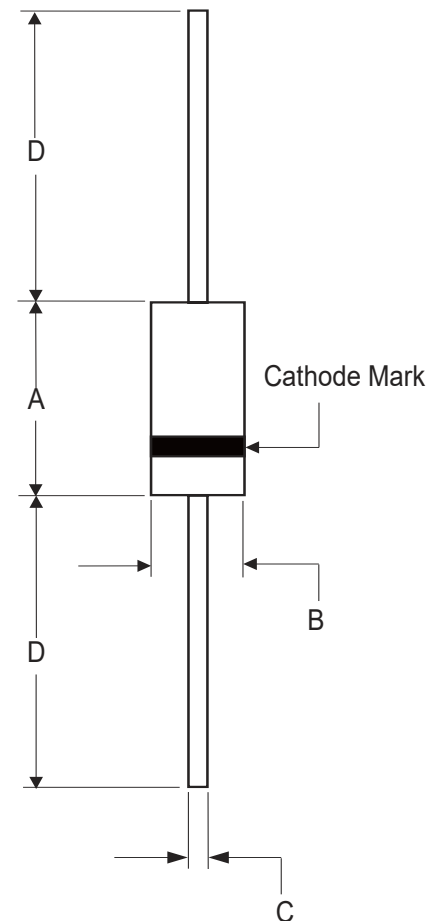
Unidirectional - Type Number and Cathode Band

Pin Configuration



**1500Watts  
Low Capacitance  
TVS  
6.5 to 28 Volts**

DO-201AE



| DIM | DIMENSIONS |       |       |      | NOTE |
|-----|------------|-------|-------|------|------|
|     | INCHES     |       | MM    |      |      |
|     | MIN        | MAX   | MIN   | MAX  |      |
| A   | ----       | 0.370 | ----  | 9.50 |      |
| B   | ----       | 0.209 | ----  | 5.30 |      |
| C   | 0.038      | 0.042 | 0.96  | 1.06 |      |
| D   | 1.000      | ----  | 25.40 | ---- |      |

| MCC PART NUMBER | STAND-OFF VOLTAGE V <sub>WM</sub> (VOLTS) | BREAKDOWN VOLTAGE V(BR) (VOLTS) MIN-MAX | TEST CURRENT AT I <sub>T</sub> (mA) | MAXIMUM REVERSE LEAKAGE AT V <sub>WM</sub> I <sub>R</sub> (μA) | MAXIMUM CLAMPING VOLTAGE AT I <sub>pp</sub> V <sub>c</sub> (VOLTS) | MAXIMUM PEAK PULSE CURRENT FIG.3 I <sub>PPM</sub> (AMPS) | MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF) | WORKING INVERSE BLOCKING VOLTAGE V <sub>WIB</sub> (VOLTS) | WORKING INVERSE BLOCKING VOLTAGE V <sub>WIB</sub> (VOLTS) | PEAK INVERSE BLOCKING VOLTAGE V <sub>PIB</sub> (VOLTS) |
|-----------------|---|---|-------------------------------------|--|--|--|--|---|---|--|
| UNI-POLAR       |   |   |                                     |  |  |  |  |   |   |  |
| LCE6.5A         | 6.5                                       | 7.22-7.98                               | 10                                  | 1000   | 11.2   | 100  | 100  | 75  | 1.0   | 100  |
| LCE7.0A         | 7.0                                       | 7.78-8.60                               | 10                                  | 500  | 12.0   | 100  | 100  | 75  | 1.0   | 100  |
| LCE7.5A         | 7.5                                       | 8.33-9.21                               | 10                                  | 250  | 12.9   | 100  | 100  | 75  | 1.0   | 100  |
| LCE8.0A         | 8.0                                       | 8.89-9.83                               | 1                                   | 100  | 13.6   | 100  | 100  | 75  | 1.0   | 100  |
| LCE8.5A         | 8.5                                       | 9.44-10.40                              | 1                                   | 50   | 14.4   | 100  | 100  | 75  | 1.0   | 100  |
| LCE9.0A         | 9.0                                       | 10.00-11.10                             | 1                                   | 10   | 15.4   | 97   | 100  | 75  | 1.0   | 100  |
| LCE10A          | 10.0                                      | 11.10-12.30                             | 1                                   | 5  | 17.0   | 88   | 100  | 75  | 1.0   | 100  |
| LCE11A          | 11.0                                      | 12.20-13.50                             | 1                                   | 5  | 18.2   | 82   | 100  | 75  | 1.0   | 100  |
| LCE12A          | 12.0                                      | 13.30-14.70                             | 1                                   | 5  | 19.9   | 75   | 100  | 75  | 1.0   | 100  |
| LCE13A          | 13.0                                      | 14.40-15.90                             | 1                                   | 5  | 21.5   | 70   | 100  | 75  | 1.0   | 100  |
| LCE14A          | 14.0                                      | 15.60-17.20                             | 1                                   | 5  | 23.2   | 65   | 100  | 75  | 1.0   | 100  |
| LCE15A          | 15.0                                      | 16.70-18.50                             | 1                                   | 5  | 24.4   | 61   | 100  | 75  | 1.0   | 100  |
| LCE16A          | 16.0                                      | 17.80-19.70                             | 1                                   | 5  | 26.0   | 57   | 100  | 75  | 1.0   | 100  |
| LCE17A          | 17.0                                      | 18.90-20.90                             | 1                                   | 5  | 27.6   | 54   | 100  | 75  | 1.0   | 100  |
| LCE18A          | 18.0                                      | 20.00-22.10                             | 1                                   | 5  | 29.2   | 51   | 100  | 75  | 1.0   | 100  |
| LCE20A          | 20.0                                      | 22.20-24.50                             | 1                                   | 5  | 32.4   | 46   | 100  | 75  | 1.0   | 100  |
| LCE22A          | 22.0                                      | 24.40-26.90                             | 1                                   | 5  | 35.5   | 42   | 100  | 75  | 1.0   | 100  |
| LCE24A          | 24.0                                      | 26.70-29.50                             | 1                                   | 5  | 38.9   | 39   | 100  | 75  | 1.0   | 100  |
| LCE26A          | 26.0                                      | 28.90-31.90                             | 1                                   | 5  | 42.1   | 36   | 100  | 75  | 1.0   | 100  |
| LCE28A          | 28.0                                      | 31.10-34.40                             | 1                                   | 5  | 45.5   | 33   | 100  | 75  | 1.0   | 100  |

Curve Characteristics

Fig. 1 - Peak Pulse Power Rating Curve

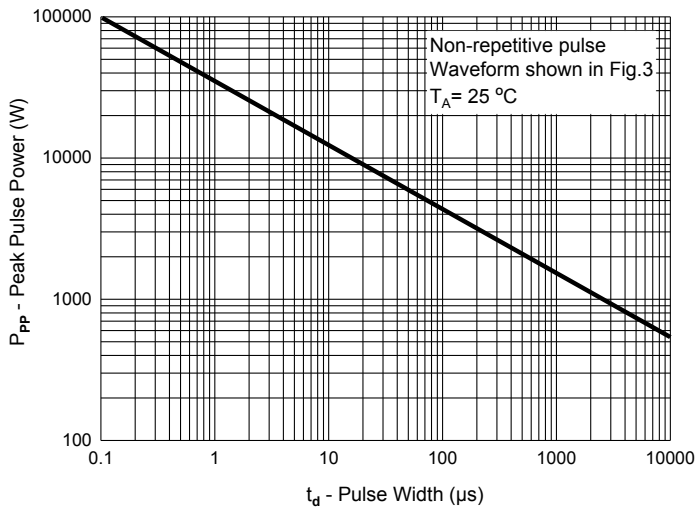


Fig. 2 - Typical Junction Capacitance

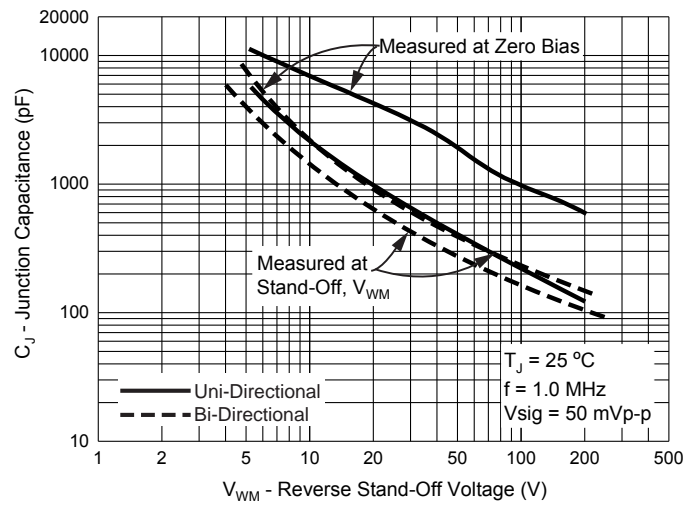


Fig. 3 - Pulse Waveform

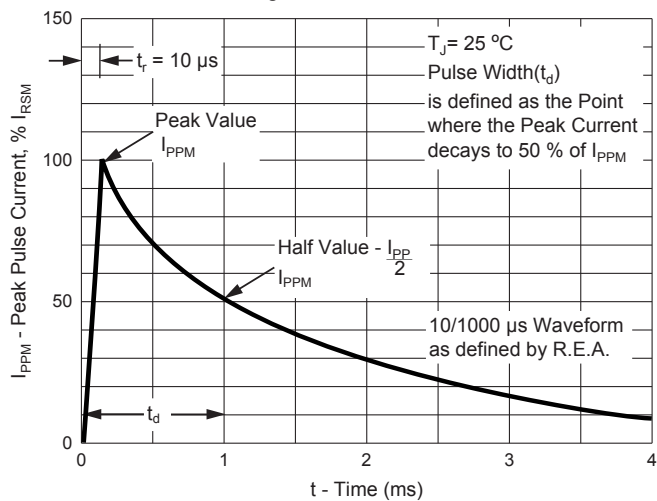


Fig. 4 - Pulse Derating Curve

