



E480232

## Features

- Glass Passivated Junction and Excellent Clamping Capability
- Low Incremental Surge Resistance
- Excellent Clamping Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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:

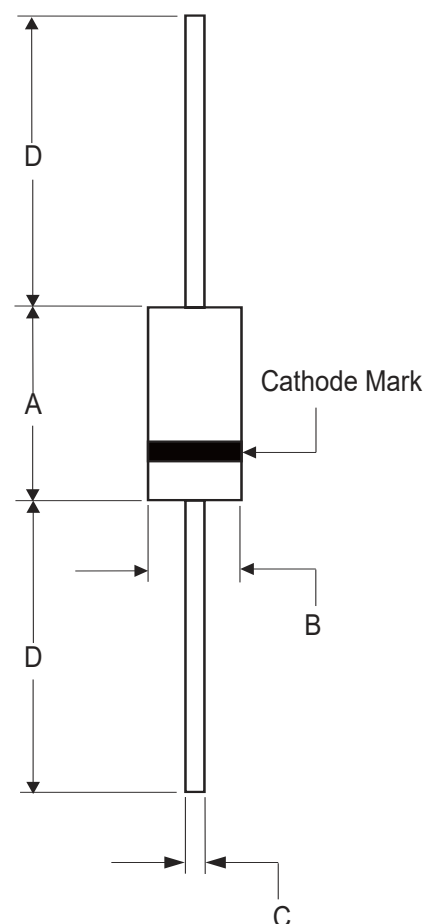
Unidirectional - Type Number and Cathode Band

Pin Configuration



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

## DO-201AE



| DIM | INCHES |       | MM    |      | NOTE |
|-----|--------|-------|-------|------|------|
|     | 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<br>NUMBER | STAND-<br>OFF<br>VOLTAGE<br>V <sub>WM</sub><br>(VOLTS) | BREAKDOWN<br>VOLTAGE<br>V(BR) (VOLTS)<br>MIN-MAX | TEST<br>CURREN<br>T AT<br>I <sub>T</sub> (mA) | MAXIMUM<br>REVERSE<br>LEAKAGE<br>AT V <sub>WM</sub><br>I <sub>R</sub> ( μA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>AT<br>I <sub>pp</sub> V <sub>c</sub><br>(VOLTS) | MAXIMUM<br>PEAK<br>PULSE<br>CURRENT<br>FIG.3 I <sub>PPM</sub><br>(AMPS) | MAXIMUM<br>JUNCTION<br>CAPACITANCE<br>AT 0 VOLTS<br>(pF) | WORKING<br>INVERSE<br>BLOCKING<br>VOLTAGE<br>V <sub>WIB</sub><br>(VOLTS) | WORKING<br>INVERSE<br>BLOCKING<br>VOLTAGE<br>V <sub>WIB</sub><br>(VOLTS) | PEAK<br>INVERSE<br>BLOCKING<br>VOLTAGE<br>V <sub>PIB</sub><br>(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

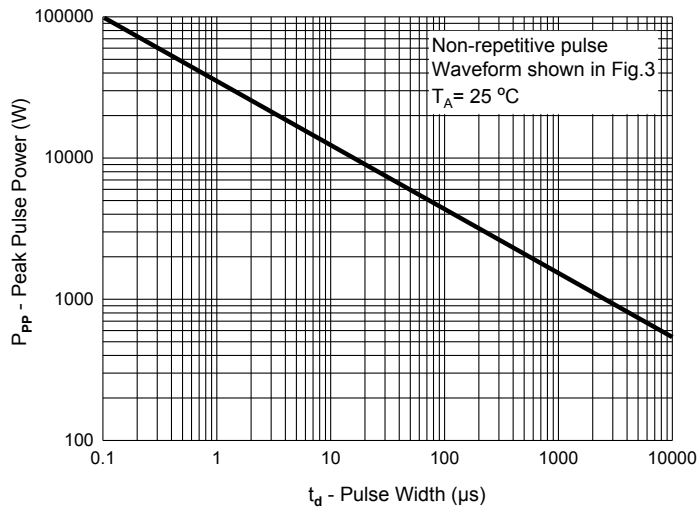


Fig. 2 - Typical Junction Capacitance

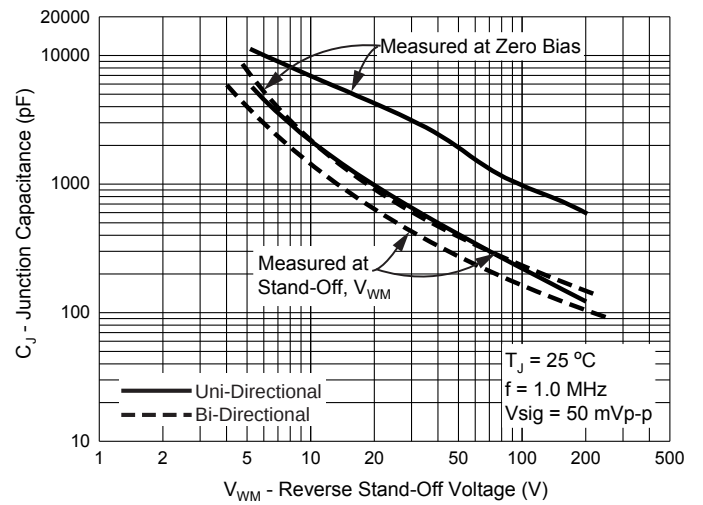


Fig. 3 - Pulse Waveform

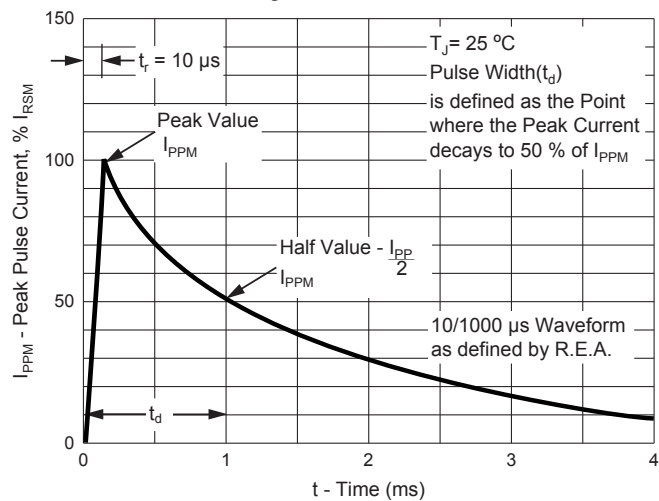
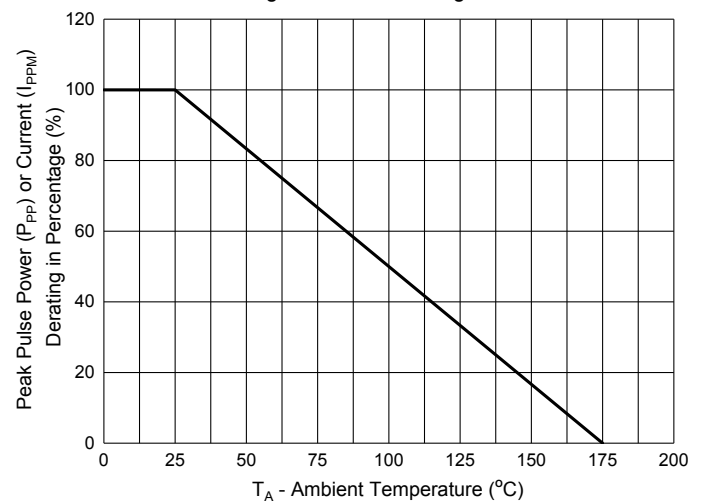


Fig. 4 - Pulse Derating Curve



## Ordering Information

| Device           | Packing                        |
|------------------|--------------------------------|
| (Part Number)-TP | Tape&Reel: 1.2Kpcs/Reel        |
| (Part Number)-AP | Ammo Packing: 1.2Kpcs/Ammo Box |
| (Part Number)-BP | Bulk:500pcs/Box,12Kpcs/Carton  |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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