


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

**Features**

- Economical Series
- Available in Both Unidirectional and Bidirectional construction and Suffix "C" Designates Bidirectional Type
- 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: 0.4 Gram(Appx.).
- Mounting Position: Any.
- Polarity: Banded Denotes Cathode. Bidirectional Not Marked.

**Application**

- Use in Sensitive Electronics Protection Against Voltage Transients Induced by Inductive Load Switching and Lighting on ICs, MOSFET, Signal Lines of Sensor Units for Consumer, Computer, Industrial, Automotive and Telecommunication.

**Maximum Ratings**

- 3/8" Lead Length
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

|  |  |       |                      |
|--|--|-------|----------------------|
| Peak Pulse Power Dissipation                             | P <sub>PP</sub>  | 600W  | T <sub>A</sub> =25°C |
| Steady State Power Dissipation                           | P <sub>D</sub>   | 5.0 W | T <sub>L</sub> =75°C |
| t <sub>clamping</sub> (0 Volts to V <sub>(BR)</sub> Min) | Unidirectional <math>1 \times 10^{-12}</math> Seconds; |       |                      |
|  | Bidirectional <math>5 \times 10^{-9}</math> Seconds    |       |                      |

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

**600WATTS TVS  
6.8 to 600 VOLTS**

**DO-15**



| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 0.230  | 0.300 | 5.80  | 7.60  |      |
| B   | 0.104  | 0.140 | 2.60  | 3.60  |      |
| C   | 0.026  | 0.035 | 0.70  | 0.90  |      |
| D   | 1.000  | ----- | 25.40 | ----- |      |

| MCC PART NUMBER | BREAKDOWN VOLTAGE $V_{(BR)} @ I_T$ (VOLTS) |     |      | TEST CURRENT $I_T$<br>mADC | RATED STANDOFF VOLTAGE $V_{WM}$<br>V | MAXIMUM REVERSE LEAKAGE $I_D @ V_{WM}$<br>( $\mu$ A) | MAXIMUM CLAMPING VOLTAGE $V_C @ I_{PP}$<br>V | MAXIMUM PEAK PULSE CURRENT $I_{PP}$<br>A | MAX. TEMP COEFFICIENT OF VBR $V_{(BR)} (TA)$<br>-55°C TO 100°C<br>% / °C |
|-----------------|--|-----|------|----------------------------|--------------------------------------|--|--|--|--|
|                 | MIN  | NOM | MAX  |                            |                                      |  |  |  |  |
| P6KE6.8         | 6.12                                       | 6.8 | 7.48 | 10                         | 5.5                                  | 1000   | 10.8   | 56                                       | 0.057  |
| P6KE6.8A        | 6.45                                       | 6.8 | 7.14 | 10                         | 5.8                                  | 1000   | 10.5   | 57                                       | 0.057  |
| P6KE7.5         | 6.75                                       | 7.5 | 8.25 | 10                         | 6.05                                 | 500  | 11.7   | 51                                       | 0.061  |
| P6KE7.5A        | 7.13                                       | 7.5 | 7.88 | 10                         | 6.4                                  | 500  | 11.3   | 53                                       | 0.061  |
| P6KE8.2         | 7.38                                       | 8.2 | 9.02 | 10                         | 6.63                                 | 200  | 12.5   | 48                                       | 0.065  |
| P6KE8.2A        | 7.79                                       | 8.2 | 8.61 | 10                         | 7.02                                 | 200  | 12.1   | 50                                       | 0.065  |
| P6KE9.1         | 8.19                                       | 9.1 | 10   | 1                          | 7.37                                 | 50   | 13.8   | 44                                       | 0.068  |
| P6KE9.1A        | 8.65                                       | 9.1 | 9.55 | 1                          | 7.78                                 | 50   | 13.4   | 45                                       | 0.068  |
| P6KE10          | 9.0  | 10  | 11   | 1                          | 8.1                                  | 10   | 15   | 40                                       | 0.073  |
| P6KE10A         | 9.5  | 10  | 10.5 | 1                          | 8.55                                 | 10   | 14.5   | 41                                       | 0.073  |
| P6KE11          | 9.9  | 11  | 12.1 | 1                          | 8.92                                 | 5  | 16.2   | 37                                       | 0.075  |
| P6KE11A         | 10.5                                       | 11  | 11.6 | 1                          | 9.4                                  | 5  | 15.6   | 38                                       | 0.075  |
| P6KE12          | 10.8                                       | 12  | 13.2 | 1                          | 9.72                                 | 5  | 17.3   | 35                                       | 0.078  |
| P6KE12A         | 11.4                                       | 12  | 12.6 | 1                          | 10.2                                 | 5  | 16.7   | 36                                       | 0.078  |
| P6KE13          | 11.7                                       | 13  | 14.3 | 1                          | 10.5                                 | 1  | 19   | 32                                       | 0.081  |
| P6KE13A         | 12.4                                       | 13  | 13.7 | 1                          | 11.1                                 | 1  | 18.2   | 33                                       | 0.081  |
| P6KE15          | 13.5                                       | 15  | 16.5 | 1                          | 12.1                                 | 1  | 22   | 27                                       | 0.084  |
| P6KE15A         | 14.3                                       | 15  | 15.8 | 1                          | 12.8                                 | 1  | 21.2   | 28                                       | 0.084  |
| P6KE16          | 14.4                                       | 16  | 17.6 | 1                          | 12.9                                 | 1  | 23.5   | 26                                       | 0.086  |
| P6KE16A         | 15.2                                       | 16  | 16.8 | 1                          | 13.6                                 | 1  | 22.5   | 27                                       | 0.086  |
| P6KE18          | 16.2                                       | 18  | 19.8 | 1                          | 14.5                                 | 1  | 26.5   | 23                                       | 0.088  |
| P6KE18A         | 17.1                                       | 18  | 18.9 | 1                          | 15.3                                 | 1  | 25.2   | 24                                       | 0.088  |
| P6KE20          | 18   | 20  | 22   | 1                          | 16.2                                 | 1  | 29.1   | 21                                       | 0.090  |
| P6KE20A         | 19   | 20  | 21   | 1                          | 17.1                                 | 1  | 27.7   | 22                                       | 0.090  |
| P6KE22          | 19.8                                       | 22  | 24.2 | 1                          | 17.8                                 | 1  | 31.9   | 19                                       | 0.092  |
| P6KE22A         | 20.9                                       | 22  | 23.1 | 1                          | 18.8                                 | 1  | 30.6   | 20                                       | 0.092  |
| P6KE24          | 21.6                                       | 24  | 26.4 | 1                          | 19.4                                 | 1  | 34.7   | 17                                       | 0.094  |
| P6KE24A         | 22.8                                       | 24  | 25.2 | 1                          | 20.5                                 | 1  | 33.2   | 18                                       | 0.094  |
| P6KE27          | 24.3                                       | 27  | 29.7 | 1                          | 21.8                                 | 1  | 39.1   | 15                                       | 0.096  |
| P6KE27A         | 25.7                                       | 27  | 28.4 | 1                          | 23.1                                 | 1  | 37.5   | 16                                       | 0.096  |
| P6KE30          | 27   | 30  | 33   | 1                          | 24.3                                 | 1  | 43.5   | 14                                       | 0.097  |
| P6KE30A         | 28.5                                       | 30  | 31.5 | 1                          | 25.6                                 | 1  | 41.4   | 14.4                                     | 0.097  |
| P6KE33          | 29.7                                       | 33  | 36.3 | 1                          | 26.8                                 | 1  | 47.7   | 12.6                                     | 0.098  |
| P6KE33A         | 31.4                                       | 33  | 34.7 | 1                          | 28.2                                 | 1  | 45.7   | 13.2                                     | 0.098  |
| P6KE36          | 32.4                                       | 36  | 39.6 | 1                          | 29.1                                 | 1  | 52   | 11.6                                     | 0.099  |
| P6KE36A         | 34.2                                       | 36  | 37.8 | 1                          | 30.8                                 | 1  | 49.9   | 12                                       | 0.099  |
| P6KE39          | 35.1                                       | 39  | 42.9 | 1                          | 31.6                                 | 1  | 56.4   | 10.6                                     | 0.100  |
| P6KE39A         | 37.1                                       | 39  | 41   | 1                          | 33.3                                 | 1  | 53.9   | 11.2                                     | 0.100  |
| P6KE43          | 38.7                                       | 43  | 47.3 | 1                          | 34.8                                 | 1  | 61.9   | 9.6                                      | 0.101  |
| P6KE43A         | 40.9                                       | 43  | 45.2 | 1                          | 36.8                                 | 1  | 59.3   | 10.1                                     | 0.101  |
| P6KE47          | 42.3                                       | 47  | 51.7 | 1                          | 38.1                                 | 1  | 67.8   | 8.9                                      | 0.101  |
| P6KE47A         | 44.7                                       | 47  | 49.4 | 1                          | 40.2                                 | 1  | 64.8   | 9.3                                      | 0.101  |
| P6KE51          | 45.9                                       | 51  | 56.1 | 1                          | 41.3                                 | 1  | 73.5   | 8.2                                      | 0.102  |
| P6KE51A         | 48.5                                       | 51  | 53.6 | 1                          | 43.6                                 | 1  | 70.1   | 8.6                                      | 0.102  |
| P6KE56          | 50.4                                       | 56  | 61.6 | 1                          | 45.4                                 | 1  | 80.5   | 7.4                                      | 0.103  |
| P6KE56A         | 53.2                                       | 56  | 58.8 | 1                          | 47.8                                 | 1  | 77   | 7.8                                      | 0.103  |
| P6KE62          | 55.8                                       | 62  | 68.2 | 1                          | 50.2                                 | 1  | 89   | 6.8                                      | 0.104  |

| MCC PART NUMBER | BREAKDOWN VOLTAGE<br>$V_{(BR)} @ I_T$<br>(VOLTS) |     |      | TEST CURRENT<br>$I_T$<br>mADC | RATED STANDOFF VOLTAGE<br>$V_{WM}$<br>V | MAXIMUM REVERSE LEAKAGE<br>$I_D @ V_{WM}$<br>( $\mu$ A) | MAXIMUM CLAMPING VOLTAGE<br>$V_C @ I_{PP}$<br>V | MAXIMUM PEAK PULSE CURRENT<br>$I_{PP}$<br>A | MAX. TEMP COEFFICIENT OF VBR<br>$V_{(BR)} (TA)$<br>-55°C TO 100°C<br>% / °C |
|-----------------|--|-----|------|-------------------------------|---|---|---|---|---|
|                 | MIN  | NOM | MAX  |                               |   |   |   |   |   |
| P6KE62A         | 58.9   | 62  | 65.1 | 1                             | 53                                      | 1   | 85  | 7.1   | 0.104   |
| P6KE68          | 61.2   | 68  | 74.8 | 1                             | 55.1                                    | 1   | 98  | 6.1   | 0.104   |
| P6KE68A         | 64.6   | 68  | 71.4 | 1                             | 58.1                                    | 1   | 92  | 6.5   | 0.104   |
| P6KE75          | 67.5   | 75  | 82.5 | 1                             | 60.7                                    | 1   | 108   | 5.5   | 0.105   |
| P6KE75A         | 71.3   | 75  | 78.8 | 1                             | 64.1                                    | 1   | 103   | 5.8   | 0.105   |
| P6KE82          | 73.8   | 82  | 90.2 | 1                             | 66.4                                    | 1   | 118   | 5.1   | 0.105   |
| P6KE82A         | 77.9   | 82  | 86.1 | 1                             | 70.1                                    | 1   | 113   | 5.3   | 0.105   |
| P6KE91          | 81.9   | 91  | 100  | 1                             | 73.7                                    | 1   | 131   | 4.5   | 0.106   |
| P6KE91A         | 86.5   | 91  | 95.5 | 1                             | 77.8                                    | 1   | 125   | 4.8   | 0.106   |
| P6KE100         | 90   | 100 | 110  | 1                             | 81                                      | 1   | 144   | 4.2   | 0.106   |
| P6KE100A        | 95   | 100 | 105  | 1                             | 85.5                                    | 1   | 137   | 4.4   | 0.106   |
| P6KE110         | 99   | 110 | 121  | 1                             | 89.2                                    | 1   | 158   | 3.8   | 0.107   |
| P6KE110A        | 105  | 110 | 116  | 1                             | 94                                      | 1   | 152   | 4.0   | 0.107   |
| P6KE120         | 108  | 120 | 132  | 1                             | 97.2                                    | 1   | 173   | 3.5   | 0.107   |
| P6KE120A        | 114  | 120 | 126  | 1                             | 102                                     | 1   | 165   | 3.6   | 0.107   |
| P6KE130         | 117  | 130 | 143  | 1                             | 105                                     | 1   | 187   | 3.2   | 0.108   |
| P6KE130A        | 124  | 130 | 137  | 1                             | 111                                     | 1   | 179   | 3.3   | 0.108   |
| P6KE150         | 135  | 150 | 165  | 1                             | 121                                     | 1   | 215   | 2.8   | 0.108   |
| P6KE150A        | 143  | 150 | 158  | 1                             | 128                                     | 1   | 207   | 2.9   | 0.108   |
| P6KE160         | 144  | 160 | 176  | 1                             | 130                                     | 1   | 230   | 2.6   | 0.108   |
| P6KE160A        | 152  | 160 | 168  | 1                             | 136                                     | 1   | 219   | 2.7   | 0.108   |
| P6KE170         | 153  | 170 | 187  | 1                             | 138                                     | 1   | 244   | 2.5   | 0.108   |
| P6KE170A        | 161  | 170 | 179  | 1                             | 145                                     | 1   | 234   | 2.6   | 0.108   |
| P6KE180         | 162  | 180 | 198  | 1                             | 146                                     | 1   | 258   | 2.3   | 0.108   |
| P6KE180A        | 171  | 180 | 189  | 1                             | 154                                     | 1   | 246   | 2.4   | 0.108   |
| P6KE200         | 180  | 200 | 220  | 1                             | 162                                     | 1   | 287   | 2.1   | 0.108   |
| P6KE200A        | 190  | 200 | 210  | 1                             | 171                                     | 1   | 274   | 2.2   | 0.108   |
| P6KE220         | 198  | 220 | 242  | 1                             | 175                                     | 1   | 344   | 1.8   | 0.108   |
| P6KE220A        | 209  | 220 | 231  | 1                             | 185                                     | 1   | 328   | 1.9   | 0.108   |
| P6KE250         | 225  | 250 | 275  | 1                             | 202                                     | 1   | 360   | 1.7   | 0.110   |
| P6KE250A        | 237  | 250 | 263  | 1                             | 214                                     | 1   | 344   | 1.8   | 0.110   |
| P6KE300         | 270  | 300 | 330  | 1                             | 243                                     | 1   | 430   | 1.4   | 0.110   |
| P6KE300A        | 285  | 300 | 315  | 1                             | 256                                     | 1   | 414   | 1.5   | 0.110   |
| P6KE350         | 315  | 350 | 385  | 1                             | 284                                     | 1   | 504   | 1.2   | 0.110   |
| P6KE350A        | 332  | 350 | 368  | 1                             | 300                                     | 1   | 482   | 1.3   | 0.110   |
| P6KE400         | 360  | 400 | 440  | 1                             | 324                                     | 1   | 574   | 1.05  | 0.110   |
| P6KE400A        | 380  | 400 | 420  | 1                             | 342                                     | 1   | 548   | 1.1   | 0.110   |
| P6KE440         | 396  | 440 | 484  | 1                             | 356                                     | 1   | 631   | 0.99  | 0.110   |
| P6KE440A        | 418  | 440 | 462  | 1                             | 376                                     | 1   | 600   | 1.04  | 0.110   |
| P6KE480         | 432  | 480 | 528  | 1                             | 389                                     | 1   | 686   | 0.88  | 0.110   |
| P6KE480A        | 456  | 480 | 504  | 1                             | 408                                     | 1   | 658   | 0.91  | 0.110   |
| P6KE510         | 459  | 510 | 561  | 1                             | 413                                     | 1   | 729   | 0.82  | 0.110   |
| P6KE510A        | 485  | 510 | 535  | 1                             | 434                                     | 1   | 698   | 0.86  | 0.110   |
| P6KE540         | 486  | 540 | 594  | 1                             | 437                                     | 1   | 772   | 0.78  | 0.110   |
| P6KE540A        | 513  | 540 | 567  | 1                             | 459                                     | 1   | 740   | 0.81  | 0.110   |
| P6KE600         | 540  | 600 | 660  | 1                             | 480                                     | 1   | 870   | 0.69  | 0.110   |
| P6KE600A        | 570  | 600 | 630  | 1                             | 512                                     | 1   | 828   | 0.75  | 0.110   |

For bidirectional type having  $V_{WM}$  of 10 volts and less, the  $I_R$  limit is double.  
For parts without A, the VBR is  $\pm 10\%$

| MCC PART NUMBER | BREAKDOWN VOLTAGE $V_{(BR)} @ I_T$ (VOLTS) |     |      | TEST CURRENT $I_T$ | RATED STANDOFF VOLTAGE $V_{WM}$ | MAXIMUM REVERSE LEAKAGE $I_D @ V_{WM}$ | MAXIMUM CLAMPING VOLTAGE $V_C @ I_{PP}$ | MAXIMUM PEAK PULSE CURRENT $I_{PP}$ | MAX. TEMP COEFFICIENT OF VBR $V_{(BR)} (TA)$<br>-55°C TO 100°C |
|-----------------|--|-----|------|--------------------|---------------------------------|--|---|-------------------------------------|--|
|                 | MIN  | NOM | MAX  |                    |                                 |  |   |                                     |  |
| P6KE6.8C        | 6.12                                       | 6.8 | 7.48 | 10                 | 5.5                             | 1000                                   | 10.8                                    | 56                                  | 0.057  |
| P6KE6.8CA       | 6.45                                       | 6.8 | 7.14 | 10                 | 5.8                             | 1000                                   | 10.5                                    | 57                                  | 0.057  |
| P6KE7.5C        | 6.75                                       | 7.5 | 8.25 | 10                 | 6.05                            | 500                                    | 11.7                                    | 51                                  | 0.061  |
| P6KE7.5AC       | 7.13                                       | 7.5 | 7.88 | 10                 | 6.4                             | 500                                    | 11.3                                    | 53                                  | 0.061  |
| P6KE8.2C        | 7.38                                       | 8.2 | 9.02 | 10                 | 6.63                            | 200                                    | 12.5                                    | 48                                  | 0.065  |
| P6KE8.2CA       | 7.79                                       | 8.2 | 8.61 | 10                 | 7.02                            | 200                                    | 12.1                                    | 50                                  | 0.065  |
| P6KE9.1C        | 8.19                                       | 9.1 | 10   | 1                  | 7.37                            | 50                                     | 13.8                                    | 44                                  | 0.068  |
| P6KE9.1CA       | 8.65                                       | 9.1 | 9.55 | 1                  | 7.78                            | 50                                     | 13.4                                    | 45                                  | 0.068  |
| P6KE10C         | 9.0  | 10  | 11   | 1                  | 8.1                             | 10                                     | 15                                      | 40                                  | 0.073  |
| P6KE10CA        | 9.5  | 10  | 10.5 | 1                  | 8.55                            | 10                                     | 14.5                                    | 41                                  | 0.073  |
| P6KE11C         | 9.9  | 11  | 12.1 | 1                  | 8.92                            | 5                                      | 16.2                                    | 37                                  | 0.075  |
| P6KE11CA        | 10.5                                       | 11  | 11.6 | 1                  | 9.4                             | 5                                      | 15.6                                    | 38                                  | 0.075  |
| P6KE12C         | 10.8                                       | 12  | 13.2 | 1                  | 9.72                            | 5                                      | 17.3                                    | 35                                  | 0.078  |
| P6KE12CA        | 11.4                                       | 12  | 12.6 | 1                  | 10.2                            | 5                                      | 16.7                                    | 36                                  | 0.078  |
| P6KE13C         | 11.7                                       | 13  | 14.3 | 1                  | 10.5                            | 1                                      | 19                                      | 32                                  | 0.081  |
| P6KE13CA        | 12.4                                       | 13  | 13.7 | 1                  | 11.1                            | 1                                      | 18.2                                    | 33                                  | 0.081  |
| P6KE15C         | 13.5                                       | 15  | 16.5 | 1                  | 12.1                            | 1                                      | 22                                      | 27                                  | 0.084  |
| P6KE15CA        | 14.3                                       | 15  | 15.8 | 1                  | 12.8                            | 1                                      | 21.2                                    | 28                                  | 0.084  |
| P6KE16C         | 14.4                                       | 16  | 17.6 | 1                  | 12.9                            | 1                                      | 23.5                                    | 26                                  | 0.086  |
| P6KE16CA        | 15.2                                       | 16  | 16.8 | 1                  | 13.6                            | 1                                      | 22.5                                    | 27                                  | 0.086  |
| P6KE18C         | 16.2                                       | 18  | 19.8 | 1                  | 14.5                            | 1                                      | 26.5                                    | 23                                  | 0.088  |
| P6KE18CA        | 17.1                                       | 18  | 18.9 | 1                  | 15.3                            | 1                                      | 25.2                                    | 24                                  | 0.088  |
| P6KE20C         | 18   | 20  | 22   | 1                  | 16.2                            | 1                                      | 29.1                                    | 21                                  | 0.090  |
| P6KE20CA        | 19   | 20  | 21   | 1                  | 17.1                            | 1                                      | 27.7                                    | 22                                  | 0.090  |
| P6KE22C         | 19.8                                       | 22  | 24.2 | 1                  | 17.8                            | 1                                      | 31.9                                    | 19                                  | 0.092  |
| P6KE22CA        | 20.9                                       | 22  | 23.1 | 1                  | 18.8                            | 1                                      | 30.6                                    | 20                                  | 0.092  |
| P6KE24C         | 21.6                                       | 24  | 26.4 | 1                  | 19.4                            | 1                                      | 34.7                                    | 17                                  | 0.094  |
| P6KE24CA        | 22.8                                       | 24  | 25.2 | 1                  | 20.5                            | 1                                      | 33.2                                    | 18                                  | 0.094  |
| P6KE27C         | 24.3                                       | 27  | 29.7 | 1                  | 21.8                            | 1                                      | 39.1                                    | 15                                  | 0.096  |
| P6KE27CA        | 25.7                                       | 27  | 28.4 | 1                  | 23.1                            | 1                                      | 37.5                                    | 16                                  | 0.096  |
| P6KE30C         | 27   | 30  | 33   | 1                  | 24.3                            | 1                                      | 43.5                                    | 14                                  | 0.097  |
| P6KE30CA        | 28.5                                       | 30  | 31.5 | 1                  | 25.6                            | 1                                      | 41.4                                    | 14.4                                | 0.097  |
| P6KE33C         | 29.7                                       | 33  | 36.3 | 1                  | 26.8                            | 1                                      | 47.7                                    | 12.6                                | 0.098  |
| P6KE33CA        | 31.4                                       | 33  | 34.7 | 1                  | 28.2                            | 1                                      | 45.7                                    | 13.2                                | 0.098  |
| P6KE36C         | 32.4                                       | 36  | 39.6 | 1                  | 29.1                            | 1                                      | 52                                      | 11.6                                | 0.099  |
| P6KE36CA        | 34.2                                       | 36  | 37.8 | 1                  | 30.8                            | 1                                      | 49.9                                    | 12                                  | 0.099  |
| P6KE39C         | 35.1                                       | 39  | 42.9 | 1                  | 31.6                            | 1                                      | 56.4                                    | 10.6                                | 0.100  |
| P6KE39CA        | 37.1                                       | 39  | 41   | 1                  | 33.3                            | 1                                      | 53.9                                    | 11.2                                | 0.100  |
| P6KE43C         | 38.7                                       | 43  | 47.3 | 1                  | 34.8                            | 1                                      | 61.9                                    | 9.6                                 | 0.101  |
| P6KE43CA        | 40.9                                       | 43  | 45.2 | 1                  | 36.8                            | 1                                      | 59.3                                    | 10.1                                | 0.101  |
| P6KE47C         | 42.3                                       | 47  | 51.7 | 1                  | 38.1                            | 1                                      | 67.8                                    | 8.9                                 | 0.101  |
| P6KE47CA        | 44.7                                       | 47  | 49.4 | 1                  | 40.2                            | 1                                      | 64.8                                    | 9.3                                 | 0.101  |
| P6KE51C         | 45.9                                       | 51  | 56.1 | 1                  | 41.3                            | 1                                      | 73.5                                    | 8.2                                 | 0.102  |
| P6KE51CA        | 48.5                                       | 51  | 53.6 | 1                  | 43.6                            | 1                                      | 70.1                                    | 8.6                                 | 0.102  |
| P6KE56C         | 50.4                                       | 56  | 61.6 | 1                  | 45.4                            | 1                                      | 80.5                                    | 7.4                                 | 0.103  |
| P6KE56CA        | 53.2                                       | 56  | 58.8 | 1                  | 47.8                            | 1                                      | 77                                      | 7.8                                 | 0.103  |
| P6KE62C         | 55.8                                       | 62  | 68.2 | 1                  | 50.2                            | 1                                      | 89                                      | 6.8                                 | 0.104  |

| MCC PART NUMBER | BREAKDOWN VOLTAGE<br>$V_{(BR)} @ I_T$<br>(VOLTS) |     |      | TEST CURRENT<br>$I_T$<br>mADC | RATED STANDOFF VOLTAGE<br>$V_{WM}$<br>V | MAXIMUM REVERSE LEAKAGE<br>$I_D @ V_{WM}$<br>( $\mu$ A) | MAXIMUM CLAMPING VOLTAGE<br>$V_C @ I_{PP}$<br>V | MAXIMUM PEAK PULSE CURRENT<br>$I_{PP}$<br>A | MAX. TEMP COEFFICIENT OF VBR<br>$V_{(BR)} (TA)$<br>-55°C TO 100°C<br>%/ °C |
|-----------------|--|-----|------|-------------------------------|---|---|---|---|--|
|                 | MIN  | NOM | MAX  |                               |   |   |   |   |  |
| P6KE62CA        | 58.9   | 62  | 65.1 | 1                             | 53                                      | 1   | 85  | 7.1   | 0.104  |
| P6KE68C         | 61.2   | 68  | 74.8 | 1                             | 55.1                                    | 1   | 98  | 6.1   | 0.104  |
| P6KE68CA        | 64.6   | 68  | 71.4 | 1                             | 58.1                                    | 1   | 92  | 6.5   | 0.104  |
| P6KE75C         | 67.5   | 75  | 82.5 | 1                             | 60.7                                    | 1   | 108   | 5.5   | 0.105  |
| P6KE75CA        | 71.3   | 75  | 78.8 | 1                             | 64.1                                    | 1   | 103   | 5.8   | 0.105  |
| P6KE82C         | 73.8   | 82  | 90.2 | 1                             | 66.4                                    | 1   | 118   | 5.1   | 0.105  |
| P6KE82CA        | 77.9   | 82  | 86.1 | 1                             | 70.1                                    | 1   | 113   | 5.3   | 0.105  |
| P6KE91C         | 81.9   | 91  | 100  | 1                             | 73.7                                    | 1   | 131   | 4.5   | 0.106  |
| P6KE91CA        | 86.5   | 91  | 95.5 | 1                             | 77.8                                    | 1   | 125   | 4.8   | 0.106  |
| P6KE100C        | 90   | 100 | 110  | 1                             | 81                                      | 1   | 144   | 4.2   | 0.106  |
| P6KE100CA       | 95   | 100 | 105  | 1                             | 85.5                                    | 1   | 137   | 4.4   | 0.106  |
| P6KE110C        | 99   | 110 | 121  | 1                             | 89.2                                    | 1   | 158   | 3.8   | 0.107  |
| P6KE110CA       | 105  | 110 | 116  | 1                             | 94                                      | 1   | 152   | 4.0   | 0.107  |
| P6KE120C        | 108  | 120 | 132  | 1                             | 97.2                                    | 1   | 173   | 3.5   | 0.107  |
| P6KE120CA       | 114  | 120 | 126  | 1                             | 102                                     | 1   | 165   | 3.6   | 0.107  |
| P6KE130C        | 117  | 130 | 143  | 1                             | 105                                     | 1   | 187   | 3.2   | 0.108  |
| P6KE130CA       | 124  | 130 | 137  | 1                             | 111                                     | 1   | 179   | 3.3   | 0.108  |
| P6KE150C        | 135  | 150 | 165  | 1                             | 121                                     | 1   | 215   | 2.8   | 0.108  |
| P6KE150CA       | 143  | 150 | 158  | 1                             | 128                                     | 1   | 207   | 2.9   | 0.108  |
| P6KE160C        | 144  | 160 | 176  | 1                             | 130                                     | 1   | 230   | 2.6   | 0.108  |
| P6KE160CA       | 152  | 160 | 168  | 1                             | 136                                     | 1   | 219   | 2.7   | 0.108  |
| P6KE170C        | 153  | 170 | 187  | 1                             | 138                                     | 1   | 244   | 2.5   | 0.108  |
| P6KE170CA       | 161  | 170 | 179  | 1                             | 145                                     | 1   | 234   | 2.6   | 0.108  |
| P6KE180C        | 162  | 180 | 198  | 1                             | 146                                     | 1   | 258   | 2.3   | 0.108  |
| P6KE180CA       | 171  | 180 | 189  | 1                             | 154                                     | 1   | 246   | 2.4   | 0.108  |
| P6KE200C        | 180  | 200 | 220  | 1                             | 162                                     | 1   | 287   | 2.1   | 0.108  |
| P6KE200CA       | 190  | 200 | 210  | 1                             | 171                                     | 1   | 274   | 2.2   | 0.108  |
| P6KE220C        | 198  | 220 | 242  | 1                             | 175                                     | 1   | 344   | 1.8   | 0.108  |
| P6KE220CA       | 209  | 220 | 231  | 1                             | 185                                     | 1   | 328   | 1.9   | 0.108  |
| P6KE250C        | 225  | 250 | 275  | 1                             | 202                                     | 1   | 360   | 1.7   | 0.110  |
| P6KE250CA       | 237  | 250 | 263  | 1                             | 214                                     | 1   | 344   | 1.8   | 0.110  |
| P6KE300C        | 270  | 300 | 330  | 1                             | 243                                     | 1   | 430   | 1.4   | 0.110  |
| P6KE300CA       | 285  | 300 | 315  | 1                             | 256                                     | 1   | 414   | 1.5   | 0.110  |
| P6KE350C        | 315  | 350 | 385  | 1                             | 284                                     | 1   | 504   | 1.2   | 0.110  |
| P6KE350CA       | 332  | 350 | 368  | 1                             | 300                                     | 1   | 482   | 1.3   | 0.110  |
| P6KE400C        | 360  | 400 | 440  | 1                             | 324                                     | 1   | 574   | 1.05  | 0.110  |
| P6KE400CA       | 380  | 400 | 420  | 1                             | 342                                     | 1   | 548   | 1.1   | 0.110  |
| P6KE440C        | 396  | 440 | 484  | 1                             | 356                                     | 1   | 631   | 0.99  | 0.110  |
| P6KE440CA       | 418  | 440 | 462  | 1                             | 376                                     | 1   | 600   | 1.04  | 0.110  |
| P6KE480C        | 432  | 480 | 528  | 1                             | 389                                     | 1   | 686   | 0.88  | 0.110  |
| P6KE480CA       | 456  | 480 | 504  | 1                             | 408                                     | 1   | 658   | 0.91  | 0.110  |
| P6KE510C        | 459  | 510 | 561  | 1                             | 413                                     | 1   | 729   | 0.82  | 0.110  |
| P6KE510CA       | 485  | 510 | 535  | 1                             | 434                                     | 1   | 698   | 0.86  | 0.110  |
| P6KE540C        | 486  | 540 | 594  | 1                             | 437                                     | 1   | 772   | 0.78  | 0.110  |
| P6KE540CA       | 513  | 540 | 567  | 1                             | 459                                     | 1   | 740   | 0.81  | 0.110  |
| P6KE600C        | 540  | 600 | 660  | 1                             | 480                                     | 1   | 870   | 0.69  | 0.110  |
| P6KE600CA       | 570  | 600 | 630  | 1                             | 512                                     | 1   | 828   | 0.75  | 0.110  |

For bidirectional type having  $V_{WM}$  of 10 volts and less, the  $I_R$  limit is double.  
 For parts without A, the VBR is  $\pm 10\%$

**Curve Characteristics**

Fig. 1 - Peak Pulse Power Rating Curve

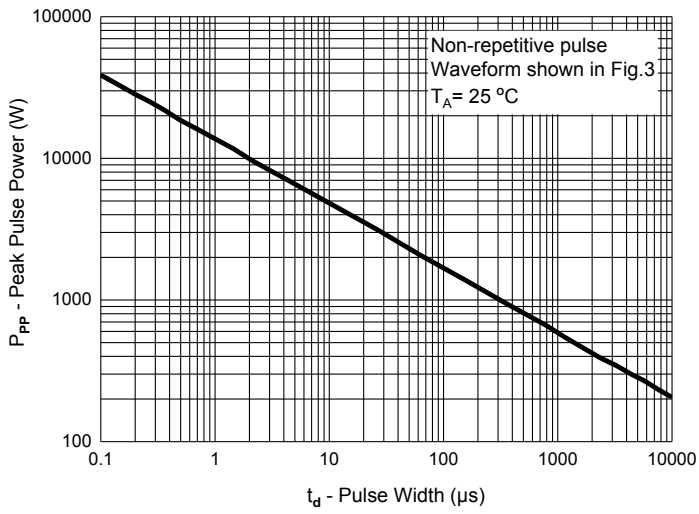


Fig. 2 - Typical Junction Capacitance

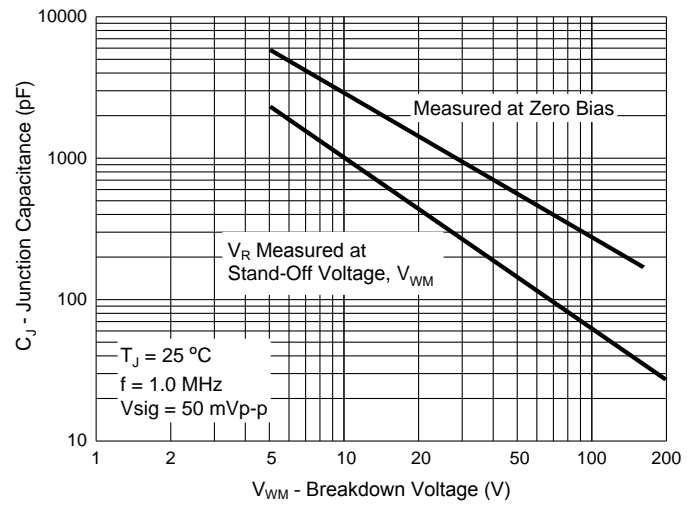


Fig. 3 - Pulse Waveform

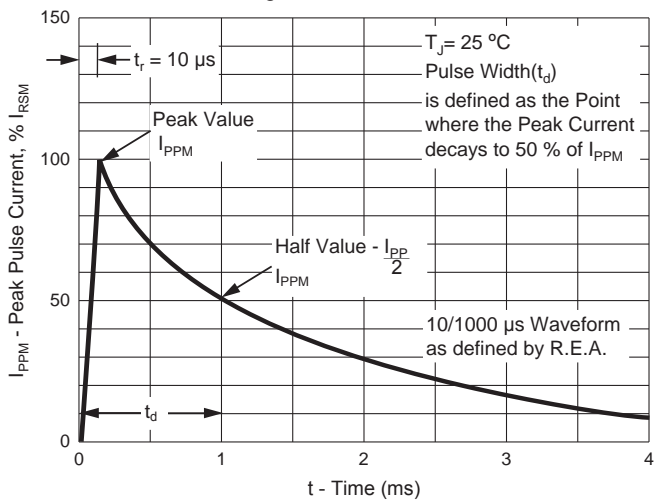
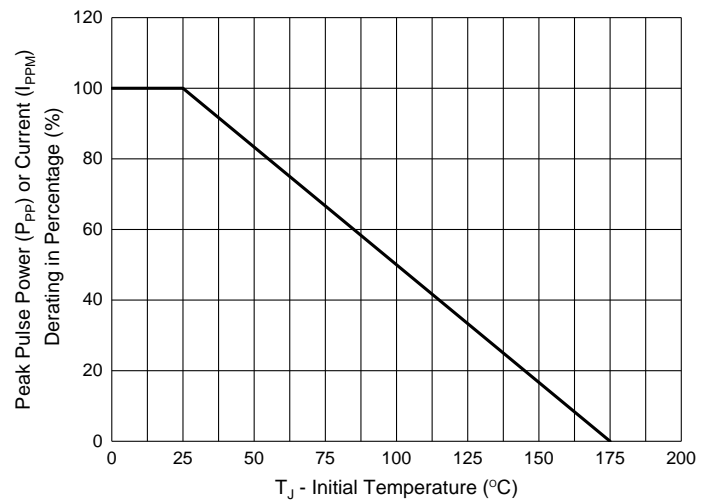


Fig. 4 - Pulse Derating Curve



## Ordering Information

| Device           | Packing                       |
|------------------|-------------------------------|
| (Part Number)-TP | Tape&Reel: 4Kpcs/Reel         |
| (Part Number)-AP | Ammo Packing: 3Kpcs/Ammo Box  |
| (Part Number)-BP | Bulk:500pcs/Box,25Kpcs/Carton |

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

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