



# TRANSIENT VOLTAGE SUPPRESSORS

## 1.5KE AND JEDEC SERIES



### 1500 WATT PEAK POWER RATING/DO-201

OPERATING/STORAGE TEMPERATURE RANGE -65°C TO +175°C

| Industry Type Number | JEDEC Type Number | V (BR) @ I <sub>T</sub> |      | I <sub>T</sub> | V <sub>WM</sub> | Max ID @ V <sub>WM</sub> | Max VC @ I <sub>pp</sub> | I <sub>pp</sub> IPP | a V (BR) | Industry Type Number | JEDEC Type Number | V (BR) @ I <sub>T</sub> |      | I <sub>T</sub> | V <sub>WM</sub> | Max ID @ V <sub>WM</sub> | Max VC @ I <sub>pp</sub> | I <sub>pp</sub> | a V (BR) |
|----------------------|-------------------|-------------------------|------|----------------|-----------------|--------------------------|--------------------------|---------------------|----------|----------------------|-------------------|-------------------------|------|----------------|-----------------|--------------------------|--------------------------|-----------------|----------|
|                      |                   | Min                     | Max  |                |                 |                          |                          |                     |          |                      |                   | Min                     | Max  |                |                 |                          |                          |                 |          |
|                      |                   | VDC                     |      | mADC           | V               | μADC                     | V                        | A                   | %/°C     |                      |                   | VDC                     |      | mADC           | V               | μADC                     | V                        | A               | %/°C     |
| 1.5KE6.8             | 1N6267            | 6.12                    | 7.48 | 10             | 5.5             | 1000                     | 10.8                     | 139                 | .057     | 1.5KE6.8A            | 1N6267A           | 6.45                    | 7.14 | 10             | 5.8             | 1000                     | 10.5                     | 143             | .057     |
| 1.5KE7.5             | 1N6268            | 6.75                    | 8.25 | 10             | 6.05            | 500                      | 11.7                     | 128                 | .061     | 1.5KE7.5A            | 1N6268A           | 7.13                    | 7.88 | 10             | 6.4             | 500                      | 11.3                     | 132             | .061     |
| 1.5KE8.2             | 1N6269            | 7.38                    | 9.02 | 10             | 6.63            | 200                      | 12.5                     | 120                 | .065     | 1.5KE8.2A            | 1N6269A           | 7.79                    | 8.61 | 10             | 7.02            | 200                      | 12.1                     | 124             | .065     |
| 1.5KE9.1             | 1N6270            | 8.19                    | 10   | 1              | 7.37            | 50                       | 13.8                     | 109                 | .068     | 1.5KE9.1A            | 1N6270A           | 8.65                    | 9.55 | 1              | 7.78            | 50                       | 13.4                     | 112             | .068     |
| 1.5KE10              | 1N6271            | 9.0                     | 11   | 1              | 8.1             | 10                       | 15                       | 100                 | .073     | 1.5KE10A             | 1N6271A           | 9.5                     | 10.5 | 1              | 8.55            | 10                       | 14.5                     | 103             | .073     |
| 1.5KE11              | 1N6272            | 9.9                     | 12.1 | 1              | 8.92            | 5                        | 16.2                     | 93                  | .075     | 1.5KE11A             | 1N6272A           | 10.5                    | 11.6 | 1              | 9.4             | 5                        | 15.6                     | 96              | .075     |
| 1.5KE12              | 1N6273            | 10.8                    | 13.2 | 1              | 9.72            | 5                        | 17.3                     | 87                  | .078     | 1.5KE12A             | 1N6273A           | 11.4                    | 12.6 | 1              | 10.2            | 5                        | 16.7                     | 90              | .078     |
| 1.5KE13              | 1N6274            | 11.7                    | 14.3 | 1              | 10.5            | 5                        | 19                       | 79                  | .081     | 1.5KE13A             | 1N6274A           | 12.4                    | 13.7 | 1              | 11.1            | 5                        | 18.2                     | 82              | .081     |
| 1.5KE15              | 1N6275            | 13.5                    | 16.5 | 1              | 12.1            | 5                        | 22                       | 68                  | .084     | 1.5KE15A             | 1N6275A           | 14.3                    | 15.8 | 1              | 12.8            | 5                        | 21.2                     | 71              | .084     |
| 1.5KE16              | 1N6276            | 14.4                    | 17.6 | 1              | 12.9            | 5                        | 23.5                     | 64                  | .086     | 1.5KE16A             | 1N6276A           | 15.2                    | 16.8 | 1              | 13.6            | 5                        | 22.5                     | 67              | .086     |
| 1.5KE18              | 1N6277            | 16.2                    | 19.8 | 1              | 14.5            | 5                        | 26.5                     | 56.5                | .088     | 1.5KE18A             | 1N6277A           | 17.1                    | 18.9 | 1              | 15.3            | 5                        | 25.2                     | 59.5            | .088     |
| 1.5KE20              | 1N6278            | 18                      | 22   | 1              | 16.2            | 5                        | 29.1                     | 51.5                | .090     | 1.5KE20A             | 1N6278A           | 19                      | 21   | 1              | 17.1            | 5                        | 27.7                     | 54              | .090     |
| 1.5KE22              | 1N6279            | 19.8                    | 24.2 | 1              | 17.8            | 5                        | 31.9                     | 47                  | .092     | 1.5KE22A             | 1N6279A           | 20.9                    | 23.1 | 1              | 18.8            | 5                        | 30.6                     | 49              | .092     |
| 1.5KE24              | 1N6280            | 21.6                    | 26.4 | 1              | 19.4            | 5                        | 34.7                     | 43                  | .094     | 1.5KE24A             | 1N6280A           | 22.8                    | 25.2 | 1              | 20.5            | 5                        | 33.2                     | 45              | .094     |
| 1.5KE27              | 1N6281            | 24.3                    | 29.7 | 1              | 21.8            | 5                        | 39.1                     | 38.5                | .096     | 1.5KE27A             | 1N6281A           | 25.7                    | 28.4 | 1              | 23.1            | 5                        | 37.5                     | 40              | .096     |
| 1.5KE30              | 1N6282            | 27                      | 33   | 1              | 24.3            | 5                        | 43.5                     | 34.5                | .097     | 1.5KE30A             | 1N6282A           | 28.5                    | 31.5 | 1              | 25.6            | 5                        | 41.4                     | 36              | .097     |
| 1.5KE33              | 1N6283            | 29.7                    | 36.3 | 1              | 26.8            | 5                        | 47.7                     | 31.5                | .098     | 1.5KE33A             | 1N6283A           | 31.4                    | 34.7 | 1              | 28.2            | 5                        | 45.7                     | 33              | .098     |
| 1.5KE36              | 1N6284            | 32.4                    | 39.6 | 1              | 29.1            | 5                        | 52                       | 29                  | .099     | 1.5KE36A             | 1N6284A           | 34.2                    | 37.8 | 1              | 30.8            | 5                        | 49.9                     | 30              | .099     |
| 1.5KE39              | 1N6285            | 35.1                    | 42.9 | 1              | 31.6            | 5                        | 56.4                     | 26.5                | .100     | 1.5KE39A             | 1N6285A           | 37.1                    | 41   | 1              | 33.3            | 5                        | 53.9                     | 28              | .100     |
| 1.5KE43              | 1N6286            | 38.7                    | 47.3 | 1              | 34.8            | 5                        | 61.9                     | 24                  | .101     | 1.5KE43A             | 1N6286A           | 40.9                    | 45.2 | 1              | 36.8            | 5                        | 59.3                     | 25.3            | .101     |
| 1.5KE47              | 1N6287            | 42.3                    | 51.7 | 1              | 38.1            | 5                        | 67.8                     | 22.2                | .101     | 1.5KE47A             | 1N6287A           | 44.7                    | 49.4 | 1              | 40.2            | 5                        | 64.8                     | 23.2            | .101     |
| 1.5KE51              | 1N6288            | 45.9                    | 56.1 | 1              | 41.3            | 5                        | 73.5                     | 20.4                | .102     | 1.5KE51A             | 1N6288A           | 48.5                    | 53.6 | 1              | 43.6            | 5                        | 70.1                     | 21.4            | .102     |
| 1.5KE56              | 1N6289            | 50.4                    | 61.6 | 1              | 45.4            | 5                        | 80.5                     | 18.6                | .103     | 1.5KE56A             | 1N6289A           | 53.2                    | 58.8 | 1              | 47.8            | 5                        | 77                       | 19.5            | .103     |
| 1.5KE62              | 1N6290            | 55.8                    | 68.2 | 1              | 50.2            | 5                        | 89                       | 16.9                | .104     | 1.5KE62A             | 1N6290A           | 58.9                    | 65.1 | 1              | 53              | 5                        | 85                       | 17.7            | .104     |
| 1.5KE68              | 1N6291            | 61.2                    | 74.8 | 1              | 55.1            | 5                        | 98                       | 15.3                | .104     | 1.5KE68A             | 1N6291A           | 64.6                    | 71.4 | 1              | 58.1            | 5                        | 92                       | 16.3            | .104     |
| 1.5KE75              | 1N6292            | 67.5                    | 82.5 | 1              | 60.7            | 5                        | 108                      | 13.9                | .105     | 1.5KE75A             | 1N6292A           | 71.3                    | 78.8 | 1              | 64.1            | 5                        | 103                      | 14.6            | .105     |
| 1.5KE82              | 1N6293            | 73.8                    | 90.2 | 1              | 66.4            | 5                        | 118                      | 12.7                | .105     | 1.5KE82A             | 1N6293A           | 77.9                    | 86.1 | 1              | 70.1            | 5                        | 113                      | 13.3            | .105     |
| 1.5KE91              | 1N6294            | 81.9                    | 100  | 1              | 73.7            | 5                        | 131                      | 11.4                | .106     | 1.5KE91A             | 1N6294A           | 86.5                    | 95.5 | 1              | 77.8            | 5                        | 125                      | 12              | .106     |
| 1.5KE100             | 1N6295            | 90                      | 110  | 1              | 81              | 5                        | 144                      | 10.4                | .106     | 1.5KE100A            | 1N6295A           | 95                      | 105  | 1              | 85.5            | 5                        | 137                      | 11              | .106     |
| 1.5KE110             | 1N6296            | 99                      | 121  | 1              | 89.2            | 5                        | 158                      | 9.5                 | .107     | 1.5KE110A            | 1N6296A           | 105                     | 116  | 1              | 94              | 5                        | 152                      | 9.9             | .107     |
| 1.5KE120             | 1N6297            | 108                     | 132  | 1              | 97.2            | 5                        | 173                      | 8.7                 | .107     | 1.5KE120A            | 1N6297A           | 114                     | 126  | 1              | 102             | 5                        | 165                      | 9.1             | .107     |
| 1.5KE130             | 1N6298            | 117                     | 143  | 1              | 105             | 5                        | 187                      | 8.0                 | .107     | 1.5KE130A            | 1N6298A           | 124                     | 137  | 1              | 111             | 5                        | 179                      | 8.4             | .107     |
| 1.5KE150             | 1N6299            | 135                     | 165  | 1              | 121             | 5                        | 215                      | 7.0                 | .108     | 1.5KE150A            | 1N6299A           | 143                     | 158  | 1              | 128             | 5                        | 207                      | 7.2             | .108     |
| 1.5KE160             | 1N6300            | 144                     | 176  | 1              | 130             | 5                        | 230                      | 6.5                 | .108     | 1.5KE160A            | 1N6300A           | 152                     | 168  | 1              | 136             | 5                        | 219                      | 6.8             | .108     |
| 1.5KE170             | 1N6301            | 153                     | 187  | 1              | 138             | 5                        | 244                      | 6.2                 | .108     | 1.5KE170A            | 1N6301A           | 162                     | 179  | 1              | 145             | 5                        | 234                      | 6.4             | .108     |
| 1.5KE180             | 1N6302            | 162                     | 198  | 1              | 146             | 5                        | 258                      | 5.8                 | .108     | 1.5KE180A            | 1N6302A           | 171                     | 189  | 1              | 154             | 5                        | 246                      | 6.1             | .108     |
| 1.5KE200             | 1N6303            | 180                     | 220  | 1              | 162             | 5                        | 287                      | 5.2                 | .108     | 1.5KE200A            | 1N6303A           | 190                     | 210  | 1              | 171             | 5                        | 274                      | 5.5             | .108     |
| 1.5KE220             |                   | 198                     | 242  | 1              | 175             | 5                        | 344                      | 4.3                 | .108     | 1.5KE220A            |                   | 209                     | 231  | 1              | 185             | 5                        | 328                      | 4.6             | .108     |
| 1.5KE250             |                   | 225                     | 275  | 1              | 202             | 5                        | 360                      | 5.0                 | .108     | 1.5KE250A            |                   | 237                     | 263  | 1              | 214             | 5                        | 344                      | 5.0             | .108     |
| 1.5KE300             |                   | 270                     | 330  | 1              | 243             | 5                        | 430                      | 5.0                 | .108     | 1.5KE300A            |                   | 285                     | 315  | 1              | 256             | 5                        | 414                      | 5.0             | .108     |
| 1.5KE350             |                   | 315                     | 385  | 1              | 284             | 5                        | 504                      | 4.0                 | .108     | 1.5KE350A            |                   | 332                     | 368  | 1              | 300             | 5                        | 482                      | 4.0             | .108     |
| 1.5KE400             |                   | 360                     | 440  | 1              | 324             | 5                        | 574                      | 4.0                 | .108     | 1.5KE400A            |                   | 380                     | 420  | 1              | 342             | 5                        | 548                      | 4.0             | .108     |

- NOTES: 1) For Bidirectional Construction, indicate a C or CA suffix after the part number i.e. 1.5KE200CA.  
 2) For Bidirectional types with V<sub>WM</sub> of 8 volts or less, the maximum leakage current (ID) specification is doubled.  
 3) JEDEC types are not available as bidirectional devices.

SYMBOLS AND ABBREVIATIONS:

V<sub>WM</sub> = Rated Stand-Off Voltage  
 I<sub>pp</sub> = Peak Pulse Current  
 Vc(Max) = Maximum Clamping Voltage

V (BR) = Breakdown Voltage  
 I<sub>T</sub> = Test Current  
 I<sub>D</sub> = Reverse Leakage  
 aV (BR) = Max Temp. Coefficient of V (BR) / TA = -55 to 100°C