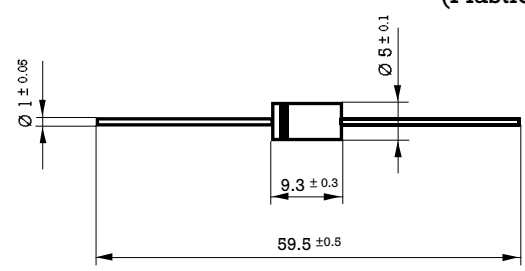


## 1500W Unidirectional and Bidirectional Transient Voltage Suppressor Diodes

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Dimensions in mm.</b></p>  <p><b>DO201AE (Plastic)</b></p> <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 300 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 3 mm. to the body.</li> </ol> | <p><b>Peak Pulse Power Rating</b><br/>At 1 ms. Exp.<br/>1500 W</p> <p><b>Reverse stand-off Voltage</b><br/>5.5 ÷ 376 V</p> <p><b>HYPERECTIFIER®</b></p> <ul style="list-style-type: none"> <li>• Glass passivated junction</li> <li>• Low Capacitance AC signal protection</li> <li>• Response time typically &lt; 1 ns.</li> <li>• Molded case</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial leads</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Maximum Ratings, according to IEC publication No. 134

|             |                                                                                   |                  |
|-------------|-----------------------------------------------------------------------------------|------------------|
| $P_{PP}$    | Peak pulse power with 10/1000 $\mu$ s exponential pulse                           | 1500 W           |
| $I_{FSM}$   | Non repetitive surge peak forward current (t = 8.3 msec.) (Jedec Method) (Note 1) | 200 A            |
| $T_j$       | Operating temperature range                                                       | - 65 to + 175 °C |
| $T_{stg}$   | Storage temperature range                                                         | - 65 to + 175 °C |
| $P_{M(AV)}$ | Steady state Power Dissipation (l = 10 mm)                                        | 5 W              |

### Electrical Characteristics at Tamb = 25 °C

|             |                                                     |                                                           |
|-------------|-----------------------------------------------------|-----------------------------------------------------------|
| $V_F$       | Max. forward voltage drop at $I_F = 100$ A (Note 1) | $V_{BR} \leq 220$ V<br>3.5 V<br>$V_{BR} > 220$ V<br>5.0 V |
| $R_{thj-l}$ | Max. thermal resistance (l = 10 mm.)                | 20 °C/W                                                   |

Note 1: Valid only for Unidirectional.

| Type              | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. 1ms. Expo. |      |
|-------------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
|                   | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| 1N6267 1.5KE6V8   | 1000                                                    | 5.50 | 6.12                                              | 6.8  | 7.48 | 10   | 10.8                                                             | 139  |
| 1N6267A 1.5KE6V8A | 1000                                                    | 5.80 | 6.45                                              | 6.8  | 7.14 | 10   | 10.5                                                             | 143  |
| 1N6268 1.5KE7V5   | 500                                                     | 6.05 | 6.75                                              | 7.5  | 8.25 | 10   | 11.7                                                             | 128  |
| 1N6268A 1.5KE7V5A | 500                                                     | 6.40 | 7.13                                              | 7.5  | 7.88 | 10   | 11.3                                                             | 132  |
| 1N6269 1.5KE8V2   | 200                                                     | 6.63 | 7.38                                              | 8.2  | 9.02 | 10   | 12.5                                                             | 120  |
| 1N6269A 1.5KE8V2A | 200                                                     | 7.02 | 7.79                                              | 8.2  | 8.61 | 10   | 12.1                                                             | 124  |
| 1N6270 1.5KE9V1   | 50                                                      | 7.37 | 8.19                                              | 9.1  | 10.0 | 1    | 13.8                                                             | 109  |
| 1N6270A 1.5KE9V1A | 50                                                      | 7.78 | 8.65                                              | 9.1  | 9.55 | 1    | 13.4                                                             | 112  |
| 1N6271 1.5KE10    | 10                                                      | 8.10 | 9.00                                              | 10   | 11.0 | 1    | 15.0                                                             | 100  |
| 1N6271A 1.5KE10A  | 10                                                      | 8.55 | 9.50                                              | 10   | 10.5 | 1    | 14.5                                                             | 103  |
| 1N6272 1.5KE11    | 5                                                       | 8.92 | 9.90                                              | 11   | 12.1 | 1    | 16.2                                                             | 93   |
| 1N6272A 1.5KE11A  | 5                                                       | 9.40 | 10.5                                              | 11   | 11.6 | 1    | 15.6                                                             | 96   |
| 1N6273 1.5KE12    | 5                                                       | 9.72 | 10.8                                              | 12   | 13.2 | 1    | 17.3                                                             | 87   |
| 1N6273A 1.5KE12A  | 5                                                       | 10.2 | 11.4                                              | 12   | 12.6 | 1    | 16.7                                                             | 90   |
| 1N6274 1.5KE13    | 5                                                       | 10.5 | 11.7                                              | 13   | 14.3 | 1    | 19.0                                                             | 79   |
| 1N6274A 1.5KE13A  | 5                                                       | 11.1 | 12.4                                              | 13   | 13.7 | 1    | 18.2                                                             | 82   |
| 1N6275 1.5KE15    | 5                                                       | 12.1 | 13.5                                              | 15   | 16.5 | 1    | 22.0                                                             | 68   |
| 1N6275A 1.5KE15A  | 5                                                       | 12.8 | 14.3                                              | 15   | 15.8 | 1    | 21.2                                                             | 71   |
| 1N6276 1.5KE16    | 5                                                       | 12.9 | 14.4                                              | 16   | 17.6 | 1    | 23.5                                                             | 64   |
| 1N6276A 1.5KE16A  | 5                                                       | 13.6 | 15.2                                              | 16   | 16.8 | 1    | 22.5                                                             | 67   |
| 1N6277 1.5KE18    | 5                                                       | 14.5 | 16.2                                              | 18   | 19.8 | 1    | 26.5                                                             | 56.5 |
| 1N6277A 1.5KE18A  | 5                                                       | 15.3 | 17.1                                              | 18   | 18.9 | 1    | 25.5                                                             | 59.5 |
| 1N6278 1.5KE20    | 5                                                       | 16.2 | 18.0                                              | 20   | 22.0 | 1    | 29.1                                                             | 51.5 |
| 1N6278A 1.5KE20A  | 5                                                       | 17.1 | 19.0                                              | 20   | 21.0 | 1    | 27.7                                                             | 54   |
| 1N6279 1.5KE22    | 5                                                       | 17.8 | 19.8                                              | 22   | 24.2 | 1    | 31.9                                                             | 47   |
| 1N6279A 1.5KE22A  | 5                                                       | 18.8 | 20.9                                              | 22   | 23.1 | 1    | 30.6                                                             | 49   |
| 1N6280 1.5KE24    | 5                                                       | 19.4 | 21.6                                              | 24   | 26.4 | 1    | 34.7                                                             | 43   |
| 1N6280A 1.5KE24A  | 5                                                       | 20.5 | 22.8                                              | 24   | 25.2 | 1    | 33.2                                                             | 45   |
| 1N6281 1.5KE27    | 5                                                       | 21.8 | 24.3                                              | 27   | 29.7 | 1    | 39.1                                                             | 38.5 |
| 1N6281A 1.5KE27A  | 5                                                       | 23.1 | 25.7                                              | 27   | 28.4 | 1    | 37.5                                                             | 40   |
| 1N6282 1.5KE30    | 5                                                       | 24.3 | 27.0                                              | 30   | 33.0 | 1    | 43.5                                                             | 34.5 |
| 1N6282A 1.5KE30A  | 5                                                       | 25.6 | 28.5                                              | 30   | 31.5 | 1    | 41.4                                                             | 36   |
| 1N6283 1.5KE33    | 5                                                       | 26.8 | 29.7                                              | 33   | 36.3 | 1    | 47.7                                                             | 31.5 |
| 1N6283A 1.5KE33A  | 5                                                       | 28.2 | 31.4                                              | 33   | 34.7 | 1    | 45.7                                                             | 33   |
| 1N6284 1.5KE36    | 5                                                       | 29.1 | 32.4                                              | 36   | 39.6 | 1    | 52.0                                                             | 29   |
| 1N6284A 1.5KE36A  | 5                                                       | 30.8 | 34.2                                              | 36   | 37.8 | 1    | 49.9                                                             | 30   |
| 1N6285 1.5KE39    | 5                                                       | 31.6 | 35.1                                              | 39   | 42.9 | 1    | 56.4                                                             | 26.5 |
| 1N6285A 1.5KE39A  | 5                                                       | 33.3 | 37.1                                              | 39   | 41.0 | 1    | 53.9                                                             | 28   |
| 1N6286 1.5KE43    | 5                                                       | 34.8 | 38.7                                              | 43   | 47.3 | 1    | 61.9                                                             | 24   |
| 1N6286A 1.5KE43A  | 5                                                       | 36.8 | 40.9                                              | 43   | 45.2 | 1    | 59.3                                                             | 25.3 |
| 1N6287 1.5KE47    | 5                                                       | 38.1 | 42.3                                              | 47   | 51.7 | 1    | 67.8                                                             | 22.2 |
| 1N6287A 1.5KE47A  | 5                                                       | 40.2 | 44.7                                              | 47   | 49.4 | 1    | 64.8                                                             | 23.2 |
| 1N6288 1.5KE51    | 5                                                       | 41.3 | 45.9                                              | 51   | 56.1 | 1    | 73.5                                                             | 20.4 |
| 1N6288A 1.5KE51A  | 5                                                       | 43.6 | 48.5                                              | 51   | 53.6 | 1    | 70.1                                                             | 21.4 |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50 \text{ ms}$ ;  $\delta < 2\%$

| Type              | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{pp}$<br>max. 1ms. Expo. |      |
|-------------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
|                   | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| 1N6289 1.5KE56    | 5                                                       | 45.4 | 50.4                                              | 56   | 61.6 | 1    | 80.5                                                             | 18.6 |
| 1N6289A 1.5KE56A  | 5                                                       | 47.8 | 53.2                                              | 56   | 58.8 | 1    | 77.0                                                             | 19.5 |
| 1N6290 1.5KE62    | 5                                                       | 50.2 | 55.8                                              | 62   | 68.2 | 1    | 89.0                                                             | 16.9 |
| 1N6290A 1.5KE62A  | 5                                                       | 53.0 | 58.9                                              | 62   | 65.1 | 1    | 85.0                                                             | 17.7 |
| 1N6291 1.5KE68    | 5                                                       | 55.1 | 61.2                                              | 68   | 74.8 | 1    | 98.0                                                             | 15.3 |
| 1N6291A 1.5KE68A  | 5                                                       | 58.1 | 64.6                                              | 68   | 71.4 | 1    | 92.0                                                             | 16.3 |
| 1N6292 1.5KE75    | 5                                                       | 60.7 | 67.5                                              | 75   | 82.5 | 1    | 108                                                              | 13.9 |
| 1N6292A 1.5KE75A  | 5                                                       | 64.1 | 71.3                                              | 75   | 78.8 | 1    | 103                                                              | 14.6 |
| 1N6293 1.5KE82    | 5                                                       | 66.4 | 73.8                                              | 82   | 90.2 | 1    | 118                                                              | 12.7 |
| 1N6293A 1.5KE82A  | 5                                                       | 70.1 | 77.9                                              | 82   | 86.1 | 1    | 113                                                              | 13.3 |
| 1N6294 1.5KE91    | 5                                                       | 73.7 | 81.9                                              | 91   | 100  | 1    | 131                                                              | 11.4 |
| 1N6294A 1.5KE91A  | 5                                                       | 77.8 | 86.5                                              | 91   | 95.5 | 1    | 125                                                              | 12   |
| 1N6295 1.5KE100   | 5                                                       | 81.0 | 90.0                                              | 100  | 110  | 1    | 144                                                              | 10.4 |
| 1N6295A 1.5KE100A | 5                                                       | 85.5 | 95.0                                              | 100  | 105  | 1    | 137                                                              | 11   |
| 1N6296 1.5KE110   | 5                                                       | 89.2 | 99.0                                              | 110  | 121  | 1    | 158                                                              | 9.5  |
| 1N6296A 1.5KE110A | 5                                                       | 94.0 | 105                                               | 110  | 116  | 1    | 152                                                              | 9.9  |
| 1N6297 1.5KE120   | 5                                                       | 97.2 | 108                                               | 120  | 132  | 1    | 173                                                              | 8.7  |
| 1N6297A 1.5KE120A | 5                                                       | 102  | 114                                               | 120  | 126  | 1    | 165                                                              | 9.1  |
| 1N6298 1.5KE130   | 5                                                       | 105  | 117                                               | 130  | 143  | 1    | 187                                                              | 8    |
| 1N6298A 1.5KE130A | 5                                                       | 111  | 124                                               | 130  | 137  | 1    | 179                                                              | 8.4  |
| 1N6299 1.5KE150   | 5                                                       | 121  | 135                                               | 150  | 165  | 1    | 215                                                              | 7    |
| 1N6299A 1.5KE150A | 5                                                       | 128  | 143                                               | 150  | 158  | 1    | 207                                                              | 7.2  |
| 1N6300 1.5KE160   | 5                                                       | 130  | 144                                               | 160  | 176  | 1    | 230                                                              | 6.5  |
| 1N6300A 1.5KE160A | 5                                                       | 136  | 152                                               | 160  | 168  | 1    | 219                                                              | 6.8  |
| 1N6301 1.5KE170   | 5                                                       | 138  | 153                                               | 170  | 187  | 1    | 244                                                              | 6.2  |
| 1N6301A 1.5KE170A | 5                                                       | 145  | 162                                               | 170  | 179  | 1    | 234                                                              | 6.4  |
| 1N6302 1.5KE180   | 5                                                       | 146  | 162                                               | 180  | 198  | 1    | 258                                                              | 5.8  |
| 1N6302A 1.5KE180A | 5                                                       | 154  | 171                                               | 180  | 189  | 1    | 246                                                              | 6.1  |
| 1N6303 1.5KE200   | 5                                                       | 162  | 180                                               | 200  | 220  | 1    | 287                                                              | 5.2  |
| 1N6303A 1.5KE200A | 5                                                       | 171  | 190                                               | 200  | 210  | 1    | 274                                                              | 5.5  |
| 1.5KE220          | 5                                                       | 175  | 198                                               | 220  | 242  | 1    | 344                                                              | 4.3  |
| 1.5KE220A         | 5                                                       | 185  | 209                                               | 220  | 231  | 1    | 328                                                              | 4.6  |
| 1.5KE250          | 5                                                       | 202  | 225                                               | 250  | 275  | 1    | 360                                                              | 5    |
| 1.5KE250A         | 5                                                       | 214  | 237                                               | 250  | 263  | 1    | 344                                                              | 5    |
| 1.5KE300          | 5                                                       | 243  | 270                                               | 300  | 330  | 1    | 430                                                              | 5    |
| 1.5KE300A         | 5                                                       | 256  | 285                                               | 300  | 315  | 1    | 414                                                              | 5    |
| 1.5KE320          | 5                                                       | 259  | 288                                               | 320  | 352  | 1    | 457                                                              | 4.50 |
| 1.5KE320A         | 5                                                       | 273  | 304                                               | 320  | 336  | 1    | 438                                                              | 4.50 |
| 1.5KE350          | 5                                                       | 284  | 315                                               | 350  | 385  | 1    | 504                                                              | 4    |
| 1.5KE350A         | 5                                                       | 300  | 332                                               | 350  | 368  | 1    | 482                                                              | 4    |
| 1.5KE400          | 5                                                       | 324  | 360                                               | 400  | 440  | 1    | 574                                                              | 4    |
| 1.5KE400A         | 5                                                       | 342  | 380                                               | 400  | 420  | 1    | 548                                                              | 4    |
| 1.5KE440          | 5                                                       | 356  | 396                                               | 440  | 484  | 1    | 631                                                              | 2.38 |
| 1.5KE440A         | 5                                                       | 376  | 418                                               | 440  | 462  | 1    | 602                                                              | 2.5  |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$



1.5KE6V8C.....1.5KE440CA  
1N6267C.....1N6303CA

| Type                | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. lms. Expo. |      |
|---------------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
|                     | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| 1N6267C 1.5KE6V8C   | 1000                                                    | 5.50 | 6.12                                              | 6.8  | 7.48 | 10   | 10.8                                                             | 139  |
| 1N6267C 1.5KE6V8CA  | 1000                                                    | 5.80 | 6.45                                              | 6.8  | 7.14 | 10   | 10.5                                                             | 143  |
| 1N6268C 1.5KE7V5C   | 500                                                     | 6.05 | 6.75                                              | 7.5  | 8.25 | 10   | 11.7                                                             | 128  |
| 1N6268CA 1.5KE7V5CA | 500                                                     | 6.40 | 7.13                                              | 7.5  | 7.88 | 10   | 11.3                                                             | 132  |
| 1N6269C 1.5KE8V2C   | 200                                                     | 6.63 | 7.38                                              | 8.2  | 9.02 | 10   | 12.5                                                             | 120  |
| 1N6269CA 1.5KE8V2CA | 200                                                     | 7.02 | 7.79                                              | 8.2  | 8.61 | 10   | 12.1                                                             | 124  |
| 1N6270C 1.5KE9V1C   | 50                                                      | 7.37 | 8.19                                              | 9.1  | 10.0 | 1    | 13.8                                                             | 109  |
| 1N6270CA 1.5KE9V1CA | 50                                                      | 7.78 | 8.65                                              | 9.1  | 9.55 | 1    | 13.4                                                             | 112  |
| 1N6271C 1.5KE10C    | 10                                                      | 8.10 | 9.00                                              | 10   | 11.0 | 1    | 15.0                                                             | 100  |
| 1N6271CA 1.5KE10CA  | 10                                                      | 8.55 | 9.50                                              | 10   | 10.5 | 1    | 14.5                                                             | 103  |
| 1N6272C 1.5KE11C    | 5                                                       | 8.92 | 9.90                                              | 11   | 12.1 | 1    | 16.2                                                             | 93   |
| 1N6272CA 1.5KE11CA  | 5                                                       | 9.40 | 10.5                                              | 11   | 11.6 | 1    | 15.6                                                             | 96   |
| 1N6273C 1.5KE12C    | 5                                                       | 9.72 | 10.8                                              | 12   | 13.2 | 1    | 17.3                                                             | 87   |
| 1N6273CA 1.5KE12CA  | 5                                                       | 10.2 | 11.4                                              | 12   | 12.6 | 1    | 16.7                                                             | 90   |
| 1N6274C 1.5KE13C    | 5                                                       | 10.5 | 11.7                                              | 13   | 14.3 | 1    | 19.0                                                             | 79   |
| 1N6274CA 1.5KE13CA  | 5                                                       | 11.1 | 12.4                                              | 13   | 13.7 | 1    | 18.2                                                             | 82   |
| 1N6275C 1.5KE15C    | 5                                                       | 12.1 | 13.5                                              | 15   | 16.5 | 1    | 22.0                                                             | 68   |
| 1N6275CA 1.5KE15CA  | 5                                                       | 12.8 | 14.3                                              | 15   | 15.8 | 1    | 21.2                                                             | 71   |
| 1N6276C 1.5KE16C    | 5                                                       | 12.9 | 14.4                                              | 16   | 17.6 | 1    | 23.5                                                             | 64   |
| 1N6276CA 1.5KE16CA  | 5                                                       | 13.6 | 15.2                                              | 16   | 16.8 | 1    | 22.5                                                             | 67   |
| 1N6277C 1.5KE18C    | 5                                                       | 14.5 | 16.2                                              | 18   | 19.8 | 1    | 26.5                                                             | 56.5 |
| 1N6277CA 1.5KE18CA  | 5                                                       | 15.3 | 17.1                                              | 18   | 18.9 | 1    | 25.5                                                             | 59.5 |
| 1N6278C 1.5KE20C    | 5                                                       | 16.2 | 18.0                                              | 20   | 22.0 | 1    | 29.1                                                             | 51.5 |
| 1N6278CA 1.5KE20CA  | 5                                                       | 17.1 | 19.0                                              | 20   | 21.0 | 1    | 27.7                                                             | 54   |
| 1N6279C 1.5KE22C    | 5                                                       | 17.8 | 19.8                                              | 22   | 24.2 | 1    | 31.9                                                             | 47   |
| 1N6279CA 1.5KE22CA  | 5                                                       | 18.8 | 20.9                                              | 22   | 23.1 | 1    | 30.6                                                             | 49   |
| 1N6280C 1.5KE24C    | 5                                                       | 19.4 | 21.6                                              | 24   | 26.4 | 1    | 34.7                                                             | 43   |
| 1N6280CA 1.5KE24CA  | 5                                                       | 20.5 | 22.8                                              | 24   | 25.2 | 1    | 33.2                                                             | 45   |
| 1N6281C 1.5KE27C    | 5                                                       | 21.8 | 24.3                                              | 27   | 29.7 | 1    | 39.1                                                             | 38.5 |
| 1N6281CA 1.5KE27CA  | 5                                                       | 23.1 | 25.7                                              | 27   | 28.4 | 1    | 37.5                                                             | 40   |
| 1N6282C 1.5KE30C    | 5                                                       | 24.3 | 27.0                                              | 30   | 33.0 | 1    | 43.5                                                             | 34.5 |
| 1N6282CA 1.5KE30CA  | 5                                                       | 25.6 | 28.5                                              | 30   | 31.5 | 1    | 41.4                                                             | 36   |
| 1N6283C 1.5KE33C    | 5                                                       | 26.8 | 29.7                                              | 33   | 36.3 | 1    | 47.7                                                             | 31.5 |
| 1N6283CA 1.5KE33CA  | 5                                                       | 28.2 | 31.4                                              | 33   | 34.7 | 1    | 45.7                                                             | 33   |
| 1N6284C 1.5KE36C    | 5                                                       | 29.1 | 32.4                                              | 36   | 39.6 | 1    | 52.0                                                             | 29   |
| 1N6284CA 1.5KE36CA  | 5                                                       | 30.8 | 34.2                                              | 36   | 37.8 | 1    | 49.9                                                             | 30   |
| 1N6285C 1.5KE39C    | 5                                                       | 31.6 | 35.1                                              | 39   | 42.9 | 1    | 56.4                                                             | 26.5 |
| 1N6285CA 1.5KE39CA  | 5                                                       | 33.3 | 37.1                                              | 39   | 41.0 | 1    | 53.9                                                             | 28   |
| 1N6286C 1.5KE43C    | 5                                                       | 34.8 | 38.7                                              | 43   | 47.3 | 1    | 61.9                                                             | 24   |
| 1N6286CA 1.5KE43CA  | 5                                                       | 36.8 | 40.9                                              | 43   | 45.2 | 1    | 59.3                                                             | 25.3 |
| 1N6287C 1.5KE47C    | 5                                                       | 38.1 | 42.3                                              | 47   | 51.7 | 1    | 67.8                                                             | 22.2 |
| 1N6287CA 1.5KE47CA  | 5                                                       | 40.2 | 44.7                                              | 47   | 49.4 | 1    | 64.8                                                             | 23.2 |
| 1N6288C 1.5KE51C    | 5                                                       | 41.3 | 45.9                                              | 51   | 56.1 | 1    | 73.5                                                             | 20.4 |
| 1N6288CA 1.5KE51CA  | 5                                                       | 43.6 | 48.5                                              | 51   | 53.6 | 1    | 70.1                                                             | 21.4 |

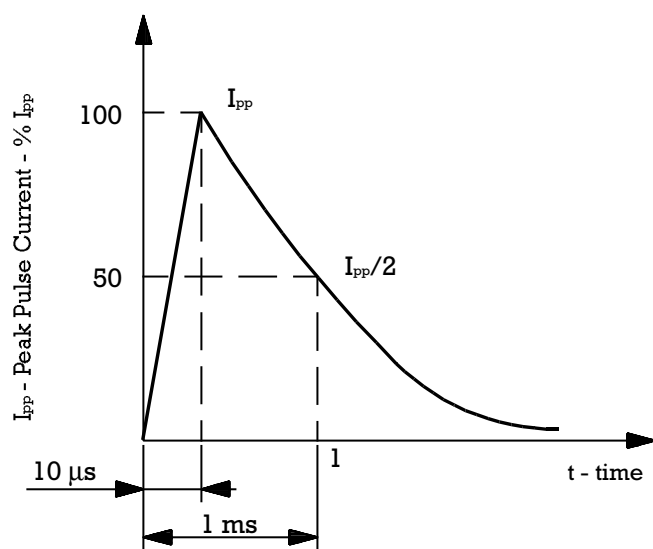
(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$



1.5KE6V8C.....1.5KE440CA  
1N6267C.....1N6303CA

| Type                | Maximum Reverse Leakage Current<br>$I_{RM}$ at $V_{RM}$ |      | (1) Breakdown Voltage<br>$V_{BR}$ at $I_R$<br>(V) |      |      |      | Max. Clamping Voltage<br>$V_{CL}$ at $I_{PP}$<br>max. 1ms. Expo. |      |
|---------------------|---------------------------------------------------------|------|---------------------------------------------------|------|------|------|------------------------------------------------------------------|------|
|                     | ( $\mu A$ )                                             | (V)  | Min.                                              | Nom. | Max. | (mA) | (V)                                                              | (A)  |
| 1N6289C 1.5KE56C    | 5                                                       | 45.4 | 50.4                                              | 56   | 61.6 | 1    | 80.5                                                             | 18.6 |
| 1N6289CA 1.5KE56CA  | 5                                                       | 47.8 | 53.2                                              | 56   | 58.8 | 1    | 77.0                                                             | 19.5 |
| 1N6290C 1.5KE62C    | 5                                                       | 50.2 | 55.8                                              | 62   | 68.2 | 1    | 89.0                                                             | 16.9 |
| 1N6290CA 1.5KE62CA  | 5                                                       | 53.0 | 58.9                                              | 62   | 65.1 | 1    | 85.0                                                             | 17.7 |
| 1N6291C 1.5KE68C    | 5                                                       | 55.1 | 61.2                                              | 68   | 74.8 | 1    | 98.0                                                             | 15.3 |
| 1N6291CA 1.5KE68CA  | 5                                                       | 58.1 | 64.6                                              | 68   | 71.4 | 1    | 92.0                                                             | 16.3 |
| 1N6292C 1.5KE75C    | 5                                                       | 60.7 | 67.5                                              | 75   | 82.5 | 1    | 108                                                              | 13.9 |
| 1N6292CA 1.5KE75CA  | 5                                                       | 64.1 | 71.3                                              | 75   | 78.8 | 1    | 103                                                              | 14.6 |
| 1N6293C 1.5KE82C    | 5                                                       | 66.4 | 73.8                                              | 82   | 90.2 | 1    | 118                                                              | 12.7 |
| 1N6293CA 1.5KE82CA  | 5                                                       | 70.1 | 77.9                                              | 82   | 86.1 | 1    | 113                                                              | 13.3 |
| 1N6294C 1.5KE91C    | 5                                                       | 73.7 | 81.9                                              | 91   | 100  | 1    | 131                                                              | 11.4 |
| 1N6294CA 1.5KE91CA  | 5                                                       | 77.8 | 86.5                                              | 91   | 95.5 | 1    | 125                                                              | 12   |
| 1N6295C 1.5KE100C   | 5                                                       | 81.0 | 90.0                                              | 100  | 110  | 1    | 144                                                              | 10.4 |
| 1N6295CA 1.5KE100CA | 5                                                       | 85.5 | 95.0                                              | 100  | 105  | 1    | 137                                                              | 11   |
| 1N6296C 1.5KE110C   | 5                                                       | 89.2 | 99.0                                              | 110  | 121  | 1    | 158                                                              | 9.5  |
| 1N6296CA 1.5KE110CA | 5                                                       | 94.0 | 105                                               | 110  | 116  | 1    | 152                                                              | 9.9  |
| 1N6297C 1.5KE120C   | 5                                                       | 97.2 | 108                                               | 120  | 132  | 1    | 173                                                              | 8.7  |
| 1N6297CA 1.5KE120CA | 5                                                       | 102  | 114                                               | 120  | 126  | 1    | 165                                                              | 9.1  |
| 1N6298C 1.5KE130C   | 5                                                       | 105  | 117                                               | 130  | 143  | 1    | 187                                                              | 8    |
| 1N6298CA 1.5KE130CA | 5                                                       | 111  | 124                                               | 130  | 137  | 1    | 179                                                              | 8.4  |
| 1N6299C 1.5KE150C   | 5                                                       | 121  | 135                                               | 150  | 165  | 1    | 215                                                              | 7    |
| 1N6299CA 1.5KE150CA | 5                                                       | 128  | 143                                               | 150  | 158  | 1    | 207                                                              | 7.2  |
| 1N6300C 1.5KE160C   | 5                                                       | 130  | 144                                               | 160  | 176  | 1    | 230                                                              | 6.5  |
| 1N6300CA 1.5KE160CA | 5                                                       | 136  | 152                                               | 160  | 168  | 1    | 219                                                              | 6.8  |
| 1N6301C 1.5KE170C   | 5                                                       | 138  | 153                                               | 170  | 187  | 1    | 244                                                              | 6.2  |
| 1N6301CA 1.5KE170CA | 5                                                       | 145  | 162                                               | 170  | 179  | 1    | 234                                                              | 6.4  |
| 1N6302C 1.5KE180C   | 5                                                       | 146  | 162                                               | 180  | 198  | 1    | 258                                                              | 5.8  |
| 1N6302CA 1.5KE180CA | 5                                                       | 154  | 171                                               | 180  | 189  | 1    | 246                                                              | 6.1  |
| 1N6303C 1.5KE200C   | 5                                                       | 162  | 180                                               | 200  | 220  | 1    | 287                                                              | 5.2  |
| 1N6303CA 1.5KE200CA | 5                                                       | 171  | 190                                               | 200  | 210  | 1    | 274                                                              | 5.5  |
| 1.5KE220C           | 5                                                       | 175  | 198                                               | 220  | 242  | 1    | 344                                                              | 4.3  |
| 1.5KE220CA          | 5                                                       | 185  | 209                                               | 220  | 231  | 1    | 328                                                              | 4.6  |
| 1.5KE250C           | 5                                                       | 202  | 225                                               | 250  | 275  | 1    | 360                                                              | 5    |
| 1.5KE250CA          | 5                                                       | 214  | 237                                               | 250  | 263  | 1    | 344                                                              | 5    |
| 1.5KE300C           | 5                                                       | 243  | 270                                               | 300  | 330  | 1    | 430                                                              | 5    |
| 1.5KE300CA          | 5                                                       | 256  | 285                                               | 300  | 315  | 1    | 414                                                              | 5    |
| 1.5KE320C           | 5                                                       | 259  | 288                                               | 320  | 352  | 1    | 457                                                              | 4.50 |
| 1.5KE320CA          | 5                                                       | 273  | 304                                               | 320  | 336  | 1    | 438                                                              | 4.50 |
| 1.5KE350C           | 5                                                       | 284  | 315                                               | 350  | 385  | 1    | 504                                                              | 4    |
| 1.5KE350CA          | 5                                                       | 300  | 332                                               | 350  | 368  | 1    | 482                                                              | 4    |
| 1.5KE400C           | 5                                                       | 324  | 360                                               | 400  | 440  | 1    | 574                                                              | 4    |
| 1.5KE400CA          | 5                                                       | 342  | 380                                               | 400  | 420  | 1    | 548                                                              | 4    |
| 1.5KE440C           | 5                                                       | 356  | 396                                               | 440  | 484  | 1    | 631                                                              | 2.38 |
| 1.5KE440CA          | 5                                                       | 376  | 418                                               | 440  | 462  | 1    | 602                                                              | 2.5  |

(1) Tested with pulses.  
Pulse test:  $t_p \leq 50$  ms;  $\delta < 2\%$



Pulse wave form 10/1000

