

## 1500W, 6.8V - 440V Transient Voltage Suppressor

### FEATURES

- Excellent clamping capability
- Low dynamic impedance
- 1500W surge capability at 10 / 1000  $\mu$ s waveform
- Fast response time: Typically less than 1.0ps from 0 volt to  $V_{BR}$  for unidirectional and 5.0ns for bidirectional
- Typical  $I_R$  less than 1 $\mu$ A above 10V
- UL recognized file # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



**DO-201**

### MECHANICAL DATA

**Case:** DO-201

Molding compound: UL flammability classification rating 94V-0

Part No. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

**Terminal:** Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

**Weight:** 0.94g (approximately)

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ unless otherwise noted) |           |              |                    |
|---------------------------------------------------------------------------------------------------|-----------|--------------|--------------------|
| PARAMETER                                                                                         | SYMBOL    | VALUE        | UNIT               |
| Peak power dissipation at $T_A=25^{\circ}\text{C}$ , $T_p=1\text{ms}$ (Note 1)                    | $P_{PK}$  | 1500         | W                  |
| Steady state power dissipation at $T_L=75^{\circ}\text{C}$ lead lengths .375", 9.5mm (Note 2)     | $P_D$     | 5            | W                  |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load               | $I_{FSM}$ | 200          | A                  |
| Maximum Instantaneous Forward Voltage at 50 A for Unidirectional Only (Note 3)                    | $V_F$     | 3.5 / 5.0    | V                  |
| Operating junction temperature range                                                              | $T_J$     | - 55 to +175 | $^{\circ}\text{C}$ |
| Storage temperature range                                                                         | $T_{STG}$ | - 55 to +175 | $^{\circ}\text{C}$ |

Note 1: Non-repetitive current pulse per fig. 3 and derated above  $T_A=25^{\circ}\text{C}$  per fig. 2

Note 2: Mounted on copper pad area of 0.6" x 0.6" (16mm x 16mm)

Note 3:  $V_F=3.5\text{V}$  for devices of  $V_{BR}\leq 200\text{V}$  and  $V_F=5.0\text{V}$  max. for devices  $V_{BR}>200\text{V}$

### Devices for Bipolar Applications

1. For bidirectional use C or CA suffix for types 1.5KE6.8 - types 1.5KE440
2. Electrical characteristics apply in both directions

| ORDERING INFORMATION |                 |              |                     |         |                        |
|----------------------|-----------------|--------------|---------------------|---------|------------------------|
| PART NO.             | PART NO. SUFFIX | PACKING CODE | PACKING CODE SUFFIX | PACKAGE | PACKING                |
| 1.5KExxx<br>(Note 1) | H               | A0           | G                   | DO-201  | 500 / Ammo box         |
|                      |                 | R0           |                     | DO-201  | 1,250 / 13" Paper reel |
|                      |                 | B0           |                     | DO-201  | 500 / Bulk packing     |

Note 1: "xxx" defines voltage from 6.8V (1.5KE6.8) to 440V (1.5KE440)

| EXAMPLE          |           |                 |              |                     |                                      |
|------------------|-----------|-----------------|--------------|---------------------|--------------------------------------|
| EXAMPLE PART NO. | PART NO.  | PART NO. SUFFIX | PACKING CODE | PACKING CODE SUFFIX | DESCRIPTION                          |
| 1.5KE100AHR0G    | 1.5KE100A | H               | R0           | G                   | AEC-Q101 qualified<br>Green compound |

**RATINGS AND CHARACTERISTICS CURVES** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

FIG. 1 PEAK PULSE POWER RATING CURVE



FIG. 2 PULSE DERATING CURVE



FIG. 3 CLAMPING POWER PULSE WAVEFORM



FIG. 4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL ONLY



FIG. 5 TYPICAL JUNCTION CAPACITANCE



| JEDEC<br>TYPE<br>NUMBER | GENERAL<br>PART<br>NUMBER | Nominal<br>Voltage | Breakdown Voltage<br>$V_{BR}$ (V)<br>(Note 1) |       | Test<br>Current<br>$I_T$<br>(mA) | Stand-Off<br>Voltage<br>$V_{WM}$<br>(V) | Maximum<br>Reverse Leakage<br>@ $V_{WM}$<br>$I_R$ ( $\mu A$ ) | Maximum<br>Peak Pulse<br>Current $I_{PPM}$<br>(A) (Note 2) | Maximum<br>Clamping Voltage<br>@ $I_{PPM}$<br>$V_C$ (V) | Maximum<br>Temperature<br>Coefficient<br>of $V_{BR}$ (%/°C) |
|-------------------------|---------------------------|--------------------|-----------------------------------------------|-------|----------------------------------|-----------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|
|                         |                           | V                  | Min                                           | Max   |                                  |                                         |                                                               |                                                            |                                                         |                                                             |
| 1N6267                  | 1.5KE6.8                  | 6.8                | 6.12                                          | 7.48  | 10                               | 5.50                                    | 1000                                                          | 145                                                        | 10.8                                                    | 0.057                                                       |
| 1N6267A                 | 1.5KE6.8A                 | 6.8                | 6.45                                          | 7.14  | 10                               | 5.80                                    | 1000                                                          | 150                                                        | 10.5                                                    | 0.057                                                       |
| 1N6268                  | 1.5KE7.5                  | 7.5                | 6.75                                          | 8.25  | 10                               | 6.05                                    | 500                                                           | 134                                                        | 11.7                                                    | 0.061                                                       |
| 1N6268A                 | 1.5KE7.5A                 | 7.5                | 7.13                                          | 7.88  | 10                               | 6.40                                    | 500                                                           | 139                                                        | 11.3                                                    | 0.061                                                       |
| 1N6269                  | 1.5KE8.2                  | 8.2                | 7.38                                          | 9.02  | 10                               | 6.63                                    | 200                                                           | 126                                                        | 12.5                                                    | 0.065                                                       |
| 1N6269A                 | 1.5KE8.2A                 | 8.2                | 7.79                                          | 8.61  | 10                               | 7.02                                    | 200                                                           | 130                                                        | 12.1                                                    | 0.065                                                       |
| 1N6270                  | 1.5KE9.1                  | 9.1                | 8.19                                          | 10.00 | 1.0                              | 7.37                                    | 50                                                            | 114                                                        | 13.8                                                    | 0.068                                                       |
| 1N6270A                 | 1.5KE9.1A                 | 9.1                | 8.65                                          | 9.55  | 1.0                              | 7.78                                    | 50                                                            | 117                                                        | 13.4                                                    | 0.068                                                       |
| 1N6271                  | 1.5KE10                   | 10                 | 9.00                                          | 11.00 | 1.0                              | 8.10                                    | 10                                                            | 105                                                        | 15.0                                                    | 0.073                                                       |
| 1N6271A                 | 1.5KE10A                  | 10                 | 9.50                                          | 10.5  | 1.0                              | 8.55                                    | 10                                                            | 108                                                        | 14.5                                                    | 0.073                                                       |
| 1N6272                  | 1.5KE11                   | 11                 | 9.90                                          | 12.1  | 1.0                              | 8.92                                    | 1                                                             | 97                                                         | 16.2                                                    | 0.075                                                       |
| 1N6272A                 | 1.5KE11A                  | 11                 | 10.5                                          | 11.6  | 1.0                              | 9.40                                    | 1                                                             | 100                                                        | 15.6                                                    | 0.075                                                       |
| 1N6273                  | 1.5KE12                   | 12                 | 10.8                                          | 13.2  | 1.0                              | 9.72                                    | 1                                                             | 91                                                         | 17.3                                                    | 0.078                                                       |
| 1N6273A                 | 1.5KE12A                  | 12                 | 11.4                                          | 12.6  | 1.0                              | 10.20                                   | 1                                                             | 94                                                         | 16.7                                                    | 0.078                                                       |
| 1N6274                  | 1.5KE13                   | 13                 | 11.7                                          | 14.3  | 1.0                              | 10.50                                   | 1                                                             | 82                                                         | 19.0                                                    | 0.081                                                       |
| 1N6274A                 | 1.5KE13A                  | 13                 | 12.4                                          | 13.7  | 1.0                              | 11.10                                   | 1                                                             | 86                                                         | 18.2                                                    | 0.081                                                       |
| 1N6275                  | 1.5KE15                   | 15                 | 13.5                                          | 16.5  | 1.0                              | 12.10                                   | 1                                                             | 71                                                         | 22.0                                                    | 0.084                                                       |
| 1N6275A                 | 1.5KE15A                  | 15                 | 14.3                                          | 15.8  | 1.0                              | 12.80                                   | 1                                                             | 74                                                         | 21.2                                                    | 0.084                                                       |
| 1N6276                  | 1.5KE16                   | 16                 | 14.4                                          | 17.6  | 1.0                              | 12.90                                   | 1                                                             | 67                                                         | 23.5                                                    | 0.086                                                       |
| 1N6276A                 | 1.5KE16A                  | 16                 | 15.2                                          | 16.8  | 1.0                              | 13.60                                   | 1                                                             | 70                                                         | 22.5                                                    | 0.086                                                       |
| 1N6277                  | 1.5KE18                   | 18                 | 16.2                                          | 19.8  | 1.0                              | 14.50                                   | 1                                                             | 59                                                         | 26.5                                                    | 0.088                                                       |
| 1N6277A                 | 1.5KE18A                  | 18                 | 17.1                                          | 18.9  | 1.0                              | 15.30                                   | 1                                                             | 60                                                         | 25.5                                                    | 0.088                                                       |
| 1N6278                  | 1.5KE20                   | 20                 | 18.0                                          | 22.0  | 1.0                              | 16.20                                   | 1                                                             | 54                                                         | 29.1                                                    | 0.090                                                       |
| 1N6278A                 | 1.5KE20A                  | 20                 | 19.0                                          | 21.0  | 1.0                              | 17.10                                   | 1                                                             | 56                                                         | 27.7                                                    | 0.090                                                       |
| 1N6279                  | 1.5KE22                   | 22                 | 19.8                                          | 24.2  | 1.0                              | 17.80                                   | 1                                                             | 49                                                         | 31.9                                                    | 0.092                                                       |
| 1N6279A                 | 1.5KE22A                  | 22                 | 20.9                                          | 23.1  | 1.0                              | 18.80                                   | 1                                                             | 51                                                         | 30.6                                                    | 0.092                                                       |
| 1N6280                  | 1.5KE24                   | 24                 | 21.6                                          | 26.4  | 1.0                              | 19.40                                   | 1                                                             | 45                                                         | 34.7                                                    | 0.094                                                       |
| 1N6280A                 | 1.5KE24A                  | 24                 | 22.8                                          | 25.2  | 1.0                              | 20.50                                   | 1                                                             | 47                                                         | 33.2                                                    | 0.094                                                       |
| 1N6281                  | 1.5KE27                   | 27                 | 24.3                                          | 29.7  | 1.0                              | 21.80                                   | 1                                                             | 40                                                         | 39.1                                                    | 0.096                                                       |
| 1N6281A                 | 1.5KE27A                  | 27                 | 25.7                                          | 28.4  | 1.0                              | 23.10                                   | 1                                                             | 42                                                         | 37.5                                                    | 0.096                                                       |
| 1N6282                  | 1.5KE30                   | 30                 | 27.0                                          | 33.0  | 1.0                              | 24.30                                   | 1                                                             | 36                                                         | 43.5                                                    | 0.097                                                       |
| 1N6282A                 | 1.5KE30A                  | 30                 | 28.5                                          | 31.5  | 1.0                              | 25.60                                   | 1                                                             | 38                                                         | 41.4                                                    | 0.097                                                       |
| 1N6283                  | 1.5KE33                   | 33                 | 29.7                                          | 36.3  | 1.0                              | 26.80                                   | 1                                                             | 33                                                         | 47.7                                                    | 0.098                                                       |
| 1N6283A                 | 1.5KE33A                  | 33                 | 31.4                                          | 34.7  | 1.0                              | 28.20                                   | 1                                                             | 34                                                         | 45.7                                                    | 0.098                                                       |
| 1N6284                  | 1.5KE36                   | 36                 | 32.4                                          | 39.6  | 1.0                              | 29.10                                   | 1                                                             | 30                                                         | 52.0                                                    | 0.099                                                       |
| 1N6284A                 | 1.5KE36A                  | 36                 | 34.2                                          | 37.8  | 1.0                              | 30.80                                   | 1                                                             | 31                                                         | 49.9                                                    | 0.099                                                       |
| 1N6285                  | 1.5KE39                   | 39                 | 35.1                                          | 42.9  | 1.0                              | 31.60                                   | 1                                                             | 27                                                         | 56.4                                                    | 0.100                                                       |
| 1N6285A                 | 1.5KE39A                  | 39                 | 37.1                                          | 41.0  | 1.0                              | 33.30                                   | 1                                                             | 29                                                         | 53.9                                                    | 0.100                                                       |
| 1N6286                  | 1.5KE43                   | 43                 | 38.7                                          | 47.3  | 1.0                              | 34.80                                   | 1                                                             | 25                                                         | 61.9                                                    | 0.101                                                       |
| 1N6286A                 | 1.5KE43A                  | 43                 | 40.9                                          | 45.2  | 1.0                              | 36.80                                   | 1                                                             | 26                                                         | 59.3                                                    | 0.101                                                       |
| 1N6287                  | 1.5KE47                   | 47                 | 42.3                                          | 51.7  | 1.0                              | 38.10                                   | 1                                                             | 23                                                         | 67.8                                                    | 0.101                                                       |
| 1N6287A                 | 1.5KE47A                  | 47                 | 44.7                                          | 49.4  | 1.0                              | 40.20                                   | 1                                                             | 24                                                         | 64.8                                                    | 0.101                                                       |
| 1N6288                  | 1.5KE51                   | 51                 | 45.9                                          | 56.1  | 1.0                              | 41.30                                   | 1                                                             | 21                                                         | 73.5                                                    | 0.102                                                       |
| 1N6288A                 | 1.5KE51A                  | 51                 | 48.5                                          | 53.6  | 1.0                              | 43.60                                   | 1                                                             | 22                                                         | 70.1                                                    | 0.102                                                       |
| 1N6289                  | 1.5KE56                   | 56                 | 50.4                                          | 61.6  | 1.0                              | 45.40                                   | 1                                                             | 19                                                         | 80.5                                                    | 0.103                                                       |
| 1N6289A                 | 1.5KE56A                  | 56                 | 53.2                                          | 58.8  | 1.0                              | 47.80                                   | 1                                                             | 20                                                         | 77.0                                                    | 0.103                                                       |

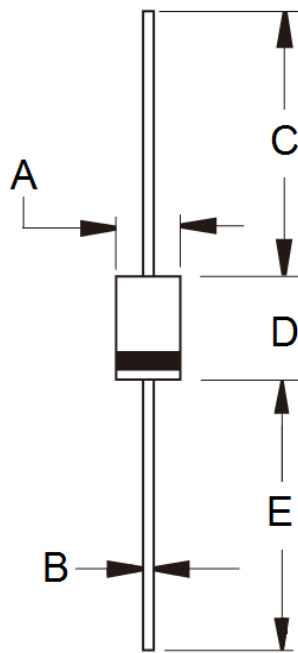
| JEDEC<br>TYPE<br>NUMBER | GENERAL<br>PART<br>NUMBER | Nominal<br>Voltage<br><br>V | Breakdown Voltage<br>$V_{BR}$ (V)<br>(Note 1) |      | Test<br>Current<br>$I_T$<br>(mA) | Stand-Off<br>Voltage<br>$V_{WM}$<br>(V) | Maximum<br>Reverse Leakage<br>@ $V_{WM}$<br>$I_R$ (μA) | Maximum<br>Peak Pulse<br>Current $I_{PPM}$<br>(A) (Note 2) | Maximum<br>Clamping Voltage<br>@ $I_{PPM}$<br>$V_C$ (V) | Maximum<br>Temperature<br>Coefficient<br>of $V_{BR}$ (%/°C) |
|-------------------------|---------------------------|-----------------------------|-----------------------------------------------|------|----------------------------------|-----------------------------------------|--------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|
|                         |                           |                             | Min                                           | Max  |                                  |                                         |                                                        |                                                            |                                                         |                                                             |
| 1N6290                  | 1.5KE62                   | 62                          | 55.8                                          | 68.2 | 1.0                              | 50.2                                    | 1                                                      | 17                                                         | 89.0                                                    | 0.104                                                       |
| 1N6290A                 | 1.5KE62A                  | 62                          | 58.9                                          | 65.1 | 1.0                              | 53.0                                    | 1                                                      | 18                                                         | 85.0                                                    | 0.104                                                       |
| 1N6291                  | 1.5KE68                   | 68                          | 61.2                                          | 74.8 | 1.0                              | 55.1                                    | 1                                                      | 16                                                         | 98.0                                                    | 0.104                                                       |
| 1N6291A                 | 1.5KE68A                  | 68                          | 64.6                                          | 71.4 | 1.0                              | 58.1                                    | 1                                                      | 17                                                         | 92.0                                                    | 0.104                                                       |
| 1N6292                  | 1.5KE75                   | 75                          | 67.5                                          | 82.5 | 1.0                              | 60.7                                    | 1                                                      | 14                                                         | 108                                                     | 0.105                                                       |
| 1N6292A                 | 1.5KE75A                  | 75                          | 71.3                                          | 78.8 | 1.0                              | 64.1                                    | 1                                                      | 15                                                         | 103                                                     | 0.105                                                       |
| 1N6293                  | 1.5KE82                   | 82                          | 73.8                                          | 90.2 | 1.0                              | 66.4                                    | 1                                                      | 13                                                         | 118                                                     | 0.105                                                       |
| 1N6293A                 | 1.5KE82A                  | 82                          | 77.9                                          | 86.1 | 1.0                              | 70.1                                    | 1                                                      | 13.9                                                       | 113                                                     | 0.105                                                       |
| 1N6294                  | 1.5KE91                   | 91                          | 81.9                                          | 100  | 1.0                              | 73.7                                    | 1                                                      | 12                                                         | 131                                                     | 0.106                                                       |
| 1N6294A                 | 1.5KE91A                  | 91                          | 86.5                                          | 95.5 | 1.0                              | 77.8                                    | 1                                                      | 12.6                                                       | 125                                                     | 0.106                                                       |
| 1N6295                  | 1.5KE100                  | 100                         | 90                                            | 110  | 1.0                              | 81.0                                    | 1                                                      | 10.9                                                       | 144                                                     | 0.106                                                       |
| 1N6295A                 | 1.5KE100A                 | 100                         | 95                                            | 105  | 1.0                              | 85.5                                    | 1                                                      | 11.4                                                       | 137                                                     | 0.106                                                       |
| 1N6296                  | 1.5KE110                  | 110                         | 99                                            | 121  | 1.0                              | 89.2                                    | 1                                                      | 9.9                                                        | 158                                                     | 0.107                                                       |
| 1N6296A                 | 1.5KE110A                 | 110                         | 105                                           | 116  | 1.0                              | 94.0                                    | 1                                                      | 10.3                                                       | 152                                                     | 0.107                                                       |
| 1N6297                  | 1.5KE120                  | 120                         | 108                                           | 132  | 1.0                              | 97.2                                    | 1                                                      | 9.1                                                        | 173                                                     | 0.107                                                       |
| 1N6297A                 | 1.5KE120A                 | 120                         | 114                                           | 126  | 1.0                              | 102                                     | 1                                                      | 9.5                                                        | 165                                                     | 0.107                                                       |
| 1N6298                  | 1.5KE130                  | 130                         | 117                                           | 143  | 1.0                              | 105                                     | 1                                                      | 8.4                                                        | 187                                                     | 0.107                                                       |
| 1N6298A                 | 1.5KE130A                 | 130                         | 124                                           | 137  | 1.0                              | 111                                     | 1                                                      | 8.7                                                        | 179                                                     | 0.107                                                       |
| 1N6299                  | 1.5KE150                  | 150                         | 135                                           | 165  | 1.0                              | 121                                     | 1                                                      | 7.3                                                        | 215                                                     | 0.108                                                       |
| 1N6299A                 | 1.5KE150A                 | 150                         | 143                                           | 158  | 1.0                              | 128                                     | 1                                                      | 7.6                                                        | 207                                                     | 0.108                                                       |
| 1N6300                  | 1.5KE160                  | 160                         | 144                                           | 176  | 1.0                              | 130                                     | 1                                                      | 6.8                                                        | 230                                                     | 0.108                                                       |
| 1N6300A                 | 1.5KE160A                 | 160                         | 152                                           | 168  | 1.0                              | 136                                     | 1                                                      | 7.1                                                        | 219                                                     | 0.108                                                       |
| 1N6301                  | 1.5KE170                  | 170                         | 153                                           | 187  | 1.0                              | 138                                     | 1                                                      | 6.4                                                        | 244                                                     | 0.108                                                       |
| 1N6301A                 | 1.5KE170A                 | 170                         | 162                                           | 179  | 1.0                              | 145                                     | 1                                                      | 6.7                                                        | 234                                                     | 0.108                                                       |
| 1N6302                  | 1.5KE180                  | 180                         | 162                                           | 198  | 1.0                              | 146                                     | 1                                                      | 6.1                                                        | 258                                                     | 0.108                                                       |
| 1N6302A                 | 1.5KE180A                 | 180                         | 171                                           | 189  | 1.0                              | 154                                     | 1                                                      | 6.4                                                        | 246                                                     | 0.108                                                       |
| 1N6303                  | 1.5KE200                  | 200                         | 180                                           | 220  | 1.0                              | 162                                     | 1                                                      | 5.4                                                        | 287                                                     | 0.108                                                       |
| 1N6303A                 | 1.5KE200A                 | 200                         | 190                                           | 210  | 1.0                              | 171                                     | 1                                                      | 5.7                                                        | 274                                                     | 0.108                                                       |
|                         | 1.5KE220                  | 220                         | 198                                           | 242  | 1.0                              | 175                                     | 1                                                      | 4.5                                                        | 344                                                     | 0.110                                                       |
|                         | 1.5KE220A                 | 220                         | 209                                           | 231  | 1.0                              | 185                                     | 1                                                      | 4.8                                                        | 328                                                     | 0.110                                                       |
|                         | 1.5KE250                  | 250                         | 225                                           | 275  | 1.0                              | 202                                     | 1                                                      | 4.3                                                        | 360                                                     | 0.110                                                       |
|                         | 1.5KE250A                 | 250                         | 237                                           | 263  | 1.0                              | 214                                     | 1                                                      | 4.5                                                        | 344                                                     | 0.110                                                       |
|                         | 1.5KE300                  | 300                         | 270                                           | 330  | 1.0                              | 243                                     | 1                                                      | 3.6                                                        | 430                                                     | 0.110                                                       |
|                         | 1.5KE300A                 | 300                         | 285                                           | 315  | 1.0                              | 256                                     | 1                                                      | 3.8                                                        | 414                                                     | 0.110                                                       |
|                         | 1.5KE350                  | 350                         | 315                                           | 385  | 1.0                              | 284                                     | 1                                                      | 3.1                                                        | 504                                                     | 0.110                                                       |
|                         | 1.5KE350A                 | 350                         | 333                                           | 368  | 1.0                              | 300                                     | 1                                                      | 3.2                                                        | 482                                                     | 0.110                                                       |
|                         | 1.5KE400                  | 400                         | 360                                           | 440  | 1.0                              | 324                                     | 1                                                      | 2.7                                                        | 574                                                     | 0.110                                                       |
|                         | 1.5KE400A                 | 400                         | 380                                           | 420  | 1.0                              | 342                                     | 1                                                      | 2.8                                                        | 548                                                     | 0.110                                                       |
|                         | 1.5KE440                  | 440                         | 396                                           | 484  | 1.0                              | 356                                     | 1                                                      | 2.4                                                        | 631                                                     | 0.110                                                       |
|                         | 1.5KE440A                 | 440                         | 418                                           | 462  | 1.0                              | 376                                     | 1                                                      | 2.5                                                        | 602                                                     | 0.110                                                       |

Notes:

1.  $V_{BR}$  measure after  $I_T$  applied for 300 μs,  $I_T$ =square wave pulse or equivalent.
2. Surge current waveform per figure. 3 and derate per figure. 2.
3. For bipolar types having  $V_{WM}$  of 10 volts and under, the  $I_R$  limit is doubled.
4. All terms and symbols are consistent with ANSI/IEEE C62.35.

**PACKAGE OUTLINE DIMENSIONS**

DO-201



| DIM. | Unit (mm) |      | Unit (inch) |       |
|------|-----------|------|-------------|-------|
|      | Min       | Max  | Min         | Max   |
| A    | 5.00      | 5.60 | 0.197       | 0.220 |
| B    | 0.96      | 1.06 | 0.038       | 0.042 |
| C    | 25.40     | -    | 1.000       | -     |
| D    | 8.50      | 9.50 | 0.335       | 0.375 |
| E    | 25.40     | -    | 1.000       | -     |

**MARKING DIAGRAM**

|  |           |                        |
|--|-----------|------------------------|
|  | P/N       | = Specific Device Code |
|  | G         | = Green Compound       |
|  | YWW       | = Date Code            |
|  | F         | = Factory Code         |
|  | JEDEC No. |                        |

Note: Cathode band for uni-directional products only

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