

# 1.5KE SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 6.8 TO 440 Volts

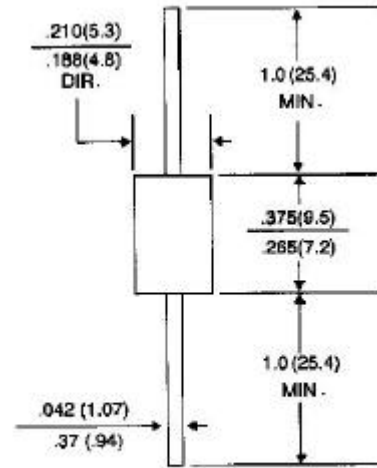
1500 Watt Peak Power

5.0 Watt Steady State

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in Molded Plastic package
- 1500W surge capability at 1ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min
- Typical  $I_R$  less than 1 A above 10V
- High temperature soldering guaranteed: 260 °C/10 seconds/.375", (9.5mm) lead length/5lbs., (2.3kg) tension

### DO-201AE



Dimensions in inches and (millimeters)

### MECHANICAL DATA

Case: JEDEC DO-201AE molded plastic

Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color band denoted cathode except Bipolar

Mounting Position: Any

Weight: 0.045 ounce, 1.2 grams

### DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 1.5KE6.8 thru types 1.5KE440.

Electrical characteristics apply in both directions.

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

| RATING  | SYMBOL         | VALUE        | UNITS |
|---|----------------|--------------|-------|
| Peak Power Dissipation at $T_A=25^\circ\text{C}$ , $T_P=1\text{ms}$ (Note 1)                              | $P_{PK}$       | Minimum 1500 | Watts |
| Steady State Power Dissipation at $T_L=75^\circ\text{C}$ Lead Lengths .375", (9.5mm) (Note 2)             | PD             | 5.0          | Watts |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3) | $I_{FSM}$      | 200          | Amps  |
| Operating and Storage Temperature Range   | $T_J, T_{STG}$ | -65 to +175  |       |

NOTES:

Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25$  per Fig. 2.

Mounted on Copper Leaf area of  $0.79\text{in}^2 (20\text{mm}^2)$ .

8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.

RATING AND CHARACTERISTIC CURVES

1.5KE SERIES

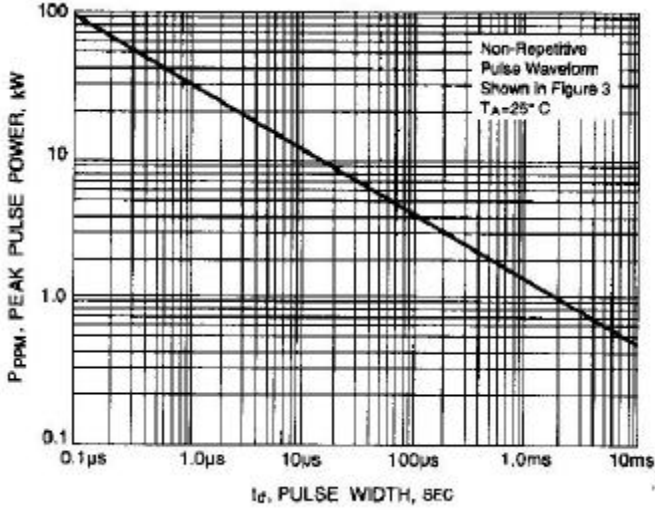


Fig. 1-PEAK PULSE POWER RATING CURVE

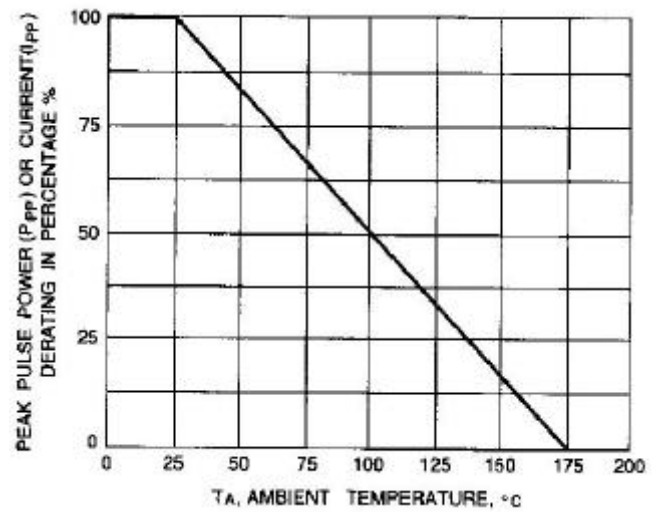


Fig. 2-PULSE DERATING CURVE

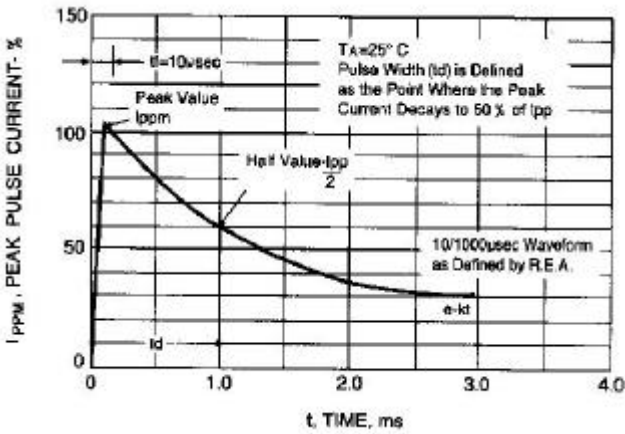


Fig. 3-PULSE WAVEFORM

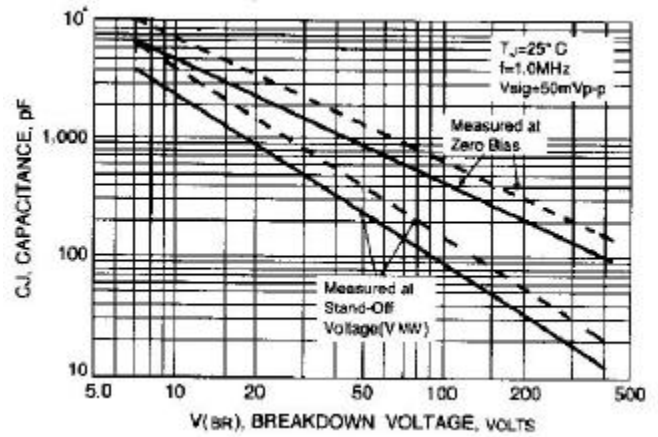


Fig. 4-TYPICAL JUNCTION CAPACITANCE

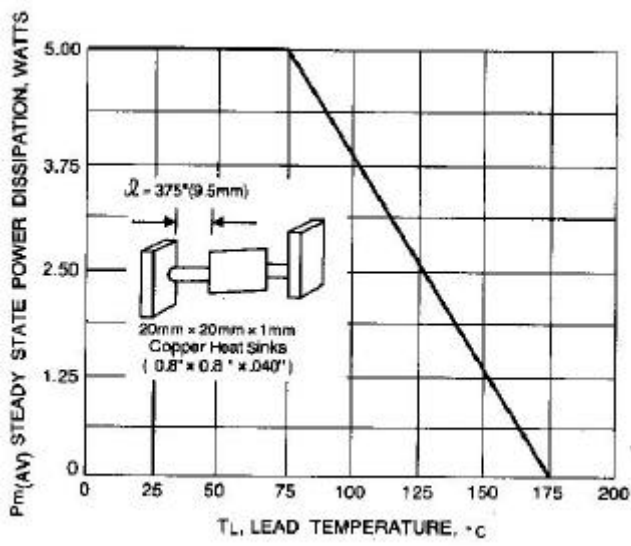


Fig. 5-STEADY STATE POWER DERATING CURVE

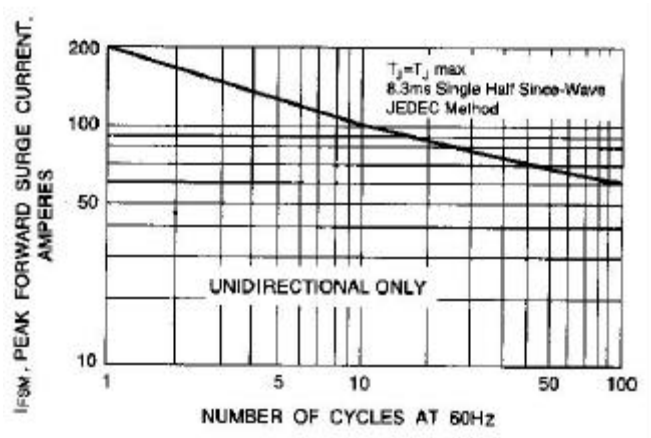


Fig. 6-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT UNIDIRECTIONAL

**UNI-DIRECTIONAL 1500 Watt Axial Lead TVS**

| UNI-DIRECTIONAL PART NUMBER | JEDEC PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp VC (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|-----------------------------|-------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| 1.5KE6.8                    | 1N6267            | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8                                 | 139.0                      | 1000.0                        |
| 1.5KE6.8A                   | 1N6267A           | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5                                 | 143.0                      | 1000.0                        |
| 1.5KE7.5                    | 1N6268            | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7                                 | 128.0                      | 500.0                         |
| 1.5KE7.5A                   | 1N6268A           | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3                                 | 132.0                      | 500.0                         |
| 1.5KE8.2                    | 1N6269            | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5                                 | 120.0                      | 200.0                         |
| 1.5KE8.2A                   | 1N6269A           | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1                                 | 124.0                      | 200.0                         |
| 1.5KE9.1                    | 1N6270            | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8                                 | 109.0                      | 50.0                          |
| 1.5KE9.1A                   | 1N6270A           | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4                                 | 112.0                      | 50.0                          |
| 1.5KE10                     | 1N6271            | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0                                 | 100.0                      | 10.0                          |
| 1.5KE10A                    | 1N6271A           | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5                                 | 103.0                      | 10.0                          |
| 1.5KE11                     | 1N6272            | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2                                 | 93.0                       | 5.0                           |
| 1.5KE11A                    | 1N6272A           | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6                                 | 96.0                       | 5.0                           |
| 1.5KE12                     | 1N6273            | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3                                 | 87.0                       | 5.0                           |
| 1.5KE12A                    | 1N6273A           | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7                                 | 90.0                       | 5.0                           |
| 1.5KE13                     | 1N6274            | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0                                 | 79.0                       | 5.0                           |
| 1.5KE13A                    | 1N6274A           | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2                                 | 82.0                       | 5.0                           |
| 1.5KE15                     | 1N6275            | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0                                 | 68.0                       | 5.0                           |
| 1.5KE15A                    | 1N6275A           | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2                                 | 71.0                       | 5.0                           |
| 1.5KE16                     | 1N6276            | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5                                 | 64.0                       | 5.0                           |
| 1.5KE16A                    | 1N6276A           | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5                                 | 67.0                       | 5.0                           |
| 1.5KE18                     | 1N6277            | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5                                 | 56.5                       | 5.0                           |
| 1.5KE18A                    | 1N6277A           | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2                                 | 59.5                       | 5.0                           |
| 1.5KE20                     | 1N6278            | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1                                 | 51.5                       | 5.0                           |
| 1.5KE20A                    | 1N6278A           | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7                                 | 54.0                       | 5.0                           |
| 1.5KE22                     | 1N6279            | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9                                 | 47.0                       | 5.0                           |
| 1.5KE22A                    | 1N6279A           | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6                                 | 49.0                       | 5.0                           |
| 1.5KE24                     | 1N6280            | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7                                 | 43.0                       | 5.0                           |
| 1.5KE24A                    | 1N6280A           | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2                                 | 45.0                       | 5.0                           |
| 1.5KE27                     | 1N6281            | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1                                 | 38.5                       | 5.0                           |
| 1.5KE27A                    | 1N6281A           | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5                                 | 40.0                       | 5.0                           |
| 1.5KE30                     | 1N6282            | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5                                 | 34.5                       | 5.0                           |
| 1.5KE30A                    | 1N6282A           | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4                                 | 36.0                       | 5.0                           |
| 1.5KE33                     | 1N6283            | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7                                 | 31.5                       | 5.0                           |
| 1.5KE33A                    | 1N6283A           | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7                                 | 33.0                       | 5.0                           |
| 1.5KE36                     | 1N6284            | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0                                 | 29.0                       | 5.0                           |
| 1.5KE36A                    | 1N6284A           | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9                                 | 30.0                       | 5.0                           |
| 1.5KE39                     | 1N6285            | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4                                 | 26.5                       | 5.0                           |
| 1.5KE39A                    | 1N6285A           | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9                                 | 28.0                       | 5.0                           |
| 1.5KE43                     | 1N6286            | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9                                 | 24.0                       | 5.0                           |
| 1.5KE43A                    | 1N6286A           | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3                                 | 25.3                       | 5.0                           |
| 1.5KE47                     | 1N6287            | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8                                 | 22.2                       | 5.0                           |
| 1.5KE47A                    | 1N6287A           | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8                                 | 23.2                       | 5.0                           |
| 1.5KE51                     | 1N6288            | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5                                 | 20.4                       | 5.0                           |
| 1.5KE51A                    | 1N6288A           | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1                                 | 21.4                       | 5.0                           |

|           |         |        |        |        |   |       |      |     |
|-----------|---------|--------|--------|--------|---|-------|------|-----|
| 1.5KE56   | 1N6289  | 45.60  | 50.40  | 61.60  | 1 | 80.5  | 18.6 | 5.0 |
| 1.5KE56A  | 1N6289A | 47.80  | 53.20  | 58.80  | 1 | 77.0  | 19.5 | 5.0 |
| 1.5KE62   | 1N6290  | 50.20  | 55.80  | 68.20  | 1 | 89.0  | 16.9 | 5.0 |
| 1.5KE62A  | 1N6290A | 53.00  | 58.90  | 65.10  | 1 | 85.0  | 17.7 | 5.0 |
| 1.5KE68   | 1N6291  | 55.10  | 61.20  | 74.80  | 1 | 98.0  | 15.3 | 5.0 |
| 1.5KE68A  | 1N6291A | 58.10  | 64.60  | 71.40  | 1 | 92.0  | 16.3 | 5.0 |
| 1.5KE75   | 1N6292  | 60.70  | 67.50  | 82.50  | 1 | 108.0 | 13.9 | 5.0 |
| 1.5KE75A  | 1N6292A | 64.10  | 71.30  | 78.80  | 1 | 103.0 | 14.6 | 5.0 |
| 1.5KE82   | 1N6293  | 66.40  | 73.80  | 90.20  | 1 | 118.0 | 12.7 | 5.0 |
| 1.5KE82A  | 1N6293A | 70.10  | 77.90  | 86.10  | 1 | 113.0 | 13.3 | 5.0 |
| 1.5KE91   | 1N6294  | 73.70  | 81.90  | 100.00 | 1 | 131.0 | 11.4 | 5.0 |
| 1.5KE91A  | 1N9294A | 77.80  | 86.50  | 95.50  | 1 | 125.0 | 12.0 | 5.0 |
| 1.5KE100  | 1N6295  | 81.00  | 90.00  | 110.00 | 1 | 144.0 | 10.4 | 5.0 |
| 1.5KE100A | 1N6295A | 85.50  | 95.00  | 105.00 | 1 | 137.0 | 11.0 | 5.0 |
| 1.5KE110  | 1N6296  | 89.20  | 99.00  | 121.00 | 1 | 158.0 | 9.5  | 5.0 |
| 1.5KE110A | 1N6296A | 94.00  | 105.00 | 116.00 | 1 | 152.0 | 9.9  | 5.0 |
| 1.5KE120  | 1N6297  | 97.20  | 108.00 | 132.00 | 1 | 173.0 | 8.7  | 5.0 |
| 1.5KE120A | 1N6297A | 102.00 | 114.00 | 126.00 | 1 | 165.0 | 9.1  | 5.0 |
| 1.5KE130  | 1N6298  | 105.00 | 117.00 | 143.00 | 1 | 187.0 | 8.0  | 5.0 |
| 1.5KE130A | 1N6298A | 111.00 | 124.00 | 137.00 | 1 | 179.0 | 8.4  | 5.0 |
| 1.5KE150  | 1N6299  | 121.00 | 135.00 | 165.00 | 1 | 215.0 | 7.0  | 5.0 |
| 1.5KE150A | 1N6299A | 128.00 | 143.00 | 158.00 | 1 | 207.0 | 7.2  | 5.0 |
| 1.5KE160  | 1N6300  | 130.00 | 144.00 | 176.00 | 1 | 230.0 | 6.5  | 5.0 |
| 1.5KE160A | 1N6300A | 136.00 | 152.00 | 168.00 | 1 | 219.0 | 6.8  | 5.0 |

### UNI-DIRECTIONAL 1500 Watt Axial Lead TVS

| UNI-DIRECTIONAL PART NUMBER | JEDEC PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|-----------------------------|-------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| 1.5KE170                    | 1N6301            | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0  | 6.2                                    | 5.0                           |
| 1.5KE170A                   | 1N6301A           | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0  | 6.4                                    | 5.0                           |
| 1.5KE180                    | 1N6302            | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0  | 5.8                                    | 5.0                           |
| 1.5KE180A                   | 1N6302A           | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0  | 6.1                                    | 5.0                           |
| 1.5KE200                    | 1N6303            | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0  | 5.2                                    | 5.0                           |
| 1.5KE200A                   | 1N6303A           | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0  | 5.5                                    | 5.0                           |
| 1.5KE220                    |                   | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0  | 4.3                                    | 5.0                           |
| 1.5KE220A                   |                   | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0  | 4.6                                    | 5.0                           |
| 1.5KE250                    |                   | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0  | 4.3                                    | 5.0                           |
| 1.5KE250A                   |                   | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0  | 4.5                                    | 5.0                           |
| 1.5KE300                    |                   | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0  | 3.6                                    | 5.0                           |
| 1.5KE300A                   |                   | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0  | 3.8                                    | 5.0                           |
| 1.5KE350                    |                   | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0  | 3.1                                    | 5.0                           |
| 1.5KE350A                   |                   | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0  | 3.2                                    | 5.0                           |
| 1.5KE400                    |                   | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0  | 2.7                                    | 5.0                           |
| 1.5KE400A                   |                   | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0  | 2.8                                    | 5.0                           |
| 1.5KE440                    |                   | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0  | 2.4                                    | 5.0                           |
| 1.5KE440A                   |                   | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0  | 2.6                                    | 5.0                           |

### BI-DIRECTIONAL 1500 Watt Axial Lead TVS

| BI-DIRECTIONAL PART NUMBER | JEDEC PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|-------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| 1.5KE6.8C                  | 1N6267C           | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8   | 139.0                                  | 2000.0                        |
| 1.5KE6.8CA                 | 1N6267CA          | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5   | 143.0                                  | 2000.0                        |
| 1.5KE7.5C                  | 1N6268C           | 6.05                               | 6.75                               | 8.28                               | 10                   | 11.7   | 128.0                                  | 1000.0                        |
| 1.5KE7.5CA                 | 1N6268CA          | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3   | 132.0                                  | 1000.0                        |
| 1.5KE8.2C                  | 1N6269C           | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5   | 120.0                                  | 400.0                         |
| 1.5KE8.2CA                 | 1N6269CA          | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1   | 124.0                                  | 400.0                         |
| 1.5KE9.1C                  | 1N6270C           | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8   | 109.0                                  | 100.0                         |
| 1.5KE9.1CA                 | 1N6270CA          | 7.38                               | 8.65                               | 9.50                               | 1                    | 13.4   | 112.0                                  | 100.0                         |
| 1.5KE10C                   | 1N62701C          | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0   | 100.0                                  | 20.0                          |
| 1.5KE10CA                  | 1N6271CA          | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5   | 103.0                                  | 20.0                          |
| 1.5KE11C                   | 1N6272C           | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2   | 93.0                                   | 10.0                          |
| 1.5KE11CA                  | 1N6272CA          | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6   | 96.0                                   | 10.0                          |
| 1.5KE12C                   | 1N6273C           | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3   | 87.0                                   | 5.0                           |
| 1.5KE12CA                  | 1N6273CA          | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7   | 90.0                                   | 5.0                           |
| 1.5KE13C                   | 1N6274C           | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0   | 79.0                                   | 5.0                           |
| 1.5KE13CA                  | 1N6274CA          | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2   | 82.0                                   | 5.0                           |
| 1.5KE15C                   | 1N6275C           | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0   | 68.0                                   | 5.0                           |
| 1.5KE15CA                  | 1N6275CA          | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2   | 71.0                                   | 5.0                           |
| 1.5KE16C                   | 1N6276C           | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5   | 64.0                                   | 5.0                           |
| 1.5KE16CA                  | 1N6276CA          | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5   | 67.0                                   | 5.0                           |
| 1.5KE18C                   | 1N6277C           | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5   | 56.5                                   | 5.0                           |
| 1.5KE18CA                  | 1N6277CA          | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2   | 59.5                                   | 5.0                           |

|            |          |        |        |        |   |       |      |     |
|------------|----------|--------|--------|--------|---|-------|------|-----|
| 1.5KE20C   | 1N6278C  | 16.20  | 18.00  | 22.00  | 1 | 29.1  | 51.5 | 5.0 |
| 1.5KE20CA  | 1N6278CA | 17.10  | 19.00  | 21.00  | 1 | 27.7  | 54.0 | 5.0 |
| 1.5KE22C   | 1N6279C  | 17.80  | 19.80  | 24.20  | 1 | 31.9  | 47.0 | 5.0 |
| 1.5KE22CA  | 1N6279CA | 18.80  | 20.90  | 23.10  | 1 | 30.6  | 49.0 | 5.0 |
| 1.5KE24C   | 1N6280C  | 19.40  | 21.60  | 26.40  | 1 | 34.7  | 43.0 | 5.0 |
| 1.5KE24CA  | 1N6280CA | 20.50  | 22.80  | 25.20  | 1 | 33.2  | 45.0 | 5.0 |
| 1.5KE27C   | 1N6281C  | 21.80  | 24.30  | 29.70  | 1 | 39.1  | 38.5 | 5.0 |
| 1.5KE27CA  | 1N6281CA | 23.10  | 25.70  | 28.40  | 1 | 37.5  | 40.0 | 5.0 |
| 1.5KE30C   | 1N6282C  | 24.30  | 27.00  | 33.00  | 1 | 43.5  | 34.5 | 5.0 |
| 1.5KE30CA  | 1N6282CA | 25.60  | 28.50  | 31.50  | 1 | 41.4  | 36.0 | 5.0 |
| 1.5KE33C   | 1N6283C  | 26.80  | 29.70  | 36.30  | 1 | 47.7  | 31.5 | 5.0 |
| 1.5KE33CA  | 1N6283CA | 28.20  | 31.40  | 34.70  | 1 | 45.7  | 33.0 | 5.0 |
| 1.5KE36C   | 1N6284C  | 29.10  | 32.40  | 39.60  | 1 | 52.0  | 29.0 | 5.0 |
| 1.5KE36CA  | 1N6284CA | 30.80  | 34.20  | 37.80  | 1 | 49.9  | 30.0 | 5.0 |
| 1.5KE39C   | 1N6285C  | 31.60  | 35.10  | 42.90  | 1 | 56.4  | 26.5 | 5.0 |
| 1.5KE39CA  | 1N6285CA | 33.30  | 37.10  | 41.00  | 1 | 53.9  | 28.0 | 5.0 |
| 1.5KE43C   | 1N6286C  | 34.80  | 38.70  | 47.30  | 1 | 61.9  | 24.0 | 5.0 |
| 1.5KE43CA  | 1N6286CA | 36.80  | 40.90  | 45.20  | 1 | 59.3  | 25.3 | 5.0 |
| 1.5KE47C   | 1N6287C  | 38.10  | 42.30  | 51.70  | 1 | 67.8  | 22.2 | 5.0 |
| 1.5KE47CA  | 1N6287CA | 40.20  | 44.70  | 49.40  | 1 | 64.8  | 23.2 | 5.0 |
| 1.5KE51C   | 1N6288C  | 41.30  | 45.90  | 56.10  | 1 | 73.5  | 20.4 | 5.0 |
| 1.5KE51CA  | 1N6288CA | 43.60  | 48.50  | 53.60  | 1 | 70.1  | 21.4 | 5.0 |
| 1.5KE56C   | 1N6289C  | 45.60  | 50.40  | 61.60  | 1 | 80.5  | 18.6 | 5.0 |
| 1.5KE56CA  | 1N6289CA | 47.80  | 53.20  | 58.80  | 1 | 77.0  | 19.5 | 5.0 |
| 1.5KE62C   | 1N6290C  | 50.20  | 55.80  | 68.20  | 1 | 89.0  | 16.9 | 5.0 |
| 1.5KE62CA  | 1N6290CA | 53.00  | 58.90  | 65.10  | 1 | 85.0  | 17.7 | 5.0 |
| 1.5KE68C   | 1N6291C  | 55.10  | 61.20  | 74.80  | 1 | 98.0  | 15.3 | 5.0 |
| 1.5KE68CA  | 1N6291CA | 58.10  | 64.60  | 71.40  | 1 | 92.0  | 16.3 | 5.0 |
| 1.5KE75C   | 1N6292C  | 60.70  | 67.50  | 82.50  | 1 | 108.0 | 13.9 | 5.0 |
| 1.5KE75CA  | 1N6292CA | 64.10  | 71.30  | 78.80  | 1 | 103.0 | 14.6 | 5.0 |
| 1.5KE82C   | 1N6293C  | 66.40  | 73.80  | 90.20  | 1 | 118.0 | 12.7 | 5.0 |
| 1.5KE82CA  | 1N6293CA | 70.10  | 77.90  | 86.10  | 1 | 113.0 | 13.3 | 5.0 |
| 1.5KE91C   | 1N6294C  | 73.70  | 81.90  | 100.00 | 1 | 131.0 | 11.4 | 5.0 |
| 1.5KE91CA  | 1N9294CA | 77.80  | 86.50  | 95.50  | 1 | 125.0 | 12.0 | 5.0 |
| 1.5KE100C  | 1N6295C  | 81.00  | 90.00  | 110.00 | 1 | 144.0 | 10.4 | 5.0 |
| 1.5KE100CA | 1N6295CA | 85.50  | 95.00  | 105.00 | 1 | 137.0 | 11.0 | 5.0 |
| 1.5KE110C  | 1N6296C  | 89.20  | 99.00  | 121.00 | 1 | 158.0 | 9.5  | 5.0 |
| 1.5KE110CA | 1N6296CA | 94.00  | 105.00 | 116.00 | 1 | 152.0 | 9.9  | 5.0 |
| 1.5KE120C  | 1N6297C  | 97.20  | 108.00 | 132.00 | 1 | 173.0 | 8.7  | 5.0 |
| 1.5KE120CA | 1N6297CA | 102.00 | 114.00 | 126.00 | 1 | 165.0 | 9.1  | 5.0 |
| 1.5KE130C  | 1N6298C  | 105.00 | 117.00 | 143.00 | 1 | 187.0 | 8.0  | 5.0 |
| 1.5KE130CA | 1N6298CA | 111.00 | 124.00 | 137.00 | 1 | 179.0 | 8.4  | 5.0 |
| 1.5KE150C  | 1N6299C  | 121.00 | 135.00 | 165.00 | 1 | 215.0 | 7.0  | 5.0 |
| 1.5KE150CA | 1N6299CA | 128.00 | 143.00 | 158.00 | 1 | 207.0 | 7.2  | 5.0 |
| 1.5KE160C  | 1N6300C  | 130.00 | 144.00 | 176.00 | 1 | 230.0 | 6.5  | 5.0 |
| 1.5KE160CA | 1N6300CA | 136.00 | 152.00 | 168.00 | 1 | 219.0 | 6.8  | 5.0 |

**BI-DIRECTIONAL 1500 Watt Axial Lead TVS**

| BI-DIRECTIONAL PART NUMBER | JEDEC PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|-------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| 1.5KE170C                  | 1N6301C           | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0  | 6.2                                    | 5.0                           |
| 1.5KE170CA                 | 1N6301CA          | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0  | 6.4                                    | 5.0                           |
| 1.5KE180C                  | 1N6302C           | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0  | 5.8                                    | 5.0                           |
| 1.5KE180CA                 | 1N6302CA          | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0  | 6.1                                    | 5.0                           |
| 1.5KE200C                  | 1N6303C           | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0  | 5.2                                    | 5.0                           |
| 1.5KE200CA                 | 1N6303CA          | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0  | 5.5                                    | 5.0                           |
| 1.5KE220C                  |                   | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0  | 4.3                                    | 5.0                           |
| 1.5KE220CA                 |                   | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0  | 4.6                                    | 5.0                           |
| 1.5KE250C                  |                   | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0  | 4.3                                    | 5.0                           |
| 1.5KE250CA                 |                   | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0  | 4.5                                    | 5.0                           |
| 1.5KE300C                  |                   | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0  | 3.6                                    | 5.0                           |
| 1.5KE300CA                 |                   | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0  | 3.8                                    | 5.0                           |
| 1.5KE350C                  |                   | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0  | 3.1                                    | 5.0                           |
| 1.5KE350CA                 |                   | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0  | 3.2                                    | 5.0                           |
| 1.5KE400C                  |                   | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0  | 2.7                                    | 5.0                           |
| 1.5KE400CA                 |                   | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0  | 2.8                                    | 5.0                           |
| 1.5KE440C                  |                   | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0  | 2.4                                    | 5.0                           |
| 1.5KE440CA                 |                   | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0  | 2.6                                    | 5.0                           |