

# 5KP SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 5.0 TO 110 Volts

5000 Watt Peak Pulse Power

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- 5000W Peak Pulse Power capability on 10/1000 S waveform
- Excellent clamping capability
- Repetition rate(Duty Cycle): 0.05%
- Low incremental surge resistance
- Fast response time: typically less than 1.0 ps from 0 volts to BV
- Typical  $I_D$  less than 1 A above 10V
- High temperature soldering guaranteed: 300 /10 seconds/.375", (9.5mm) lead length/5lbs., (2.3kg) tension

### MECHANICAL DATA

Case: Molded plastic over glass passivated junction

Terminals: Plated Axial leads, solderable per

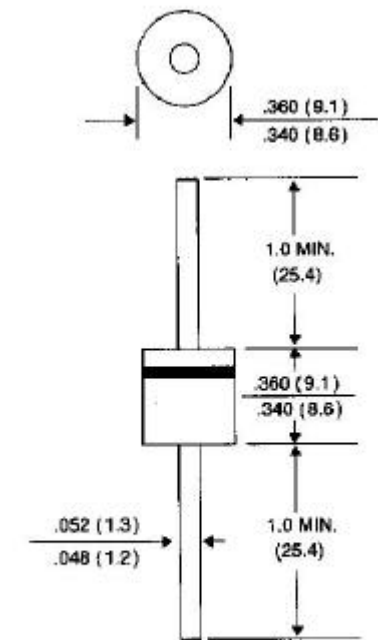
MIL-STD-750, Method 2026

Polarity: Color band denotes positive end(cathode) Except Bipolar

Mounting Position: Any

Weight: 0.07 ounce, 2.1 grams

### P-600



Dimensions in inches and (millimeters)

## DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types  
Electrical characteristics apply in both directions.

## MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 ° ambient temperature unless otherwise specified.

| RATING                                                                                                      | SYMBOL         | VALUE        | UNITS |
|-------------------------------------------------------------------------------------------------------------|----------------|--------------|-------|
| Peak Pulse Power Dissipation on 10/1000 S waveform (Note 1, FIG.1)                                          | $P_{PPM}$      | Minimum 5000 | Watts |
| Peak Pulse Current on 10/1000 S waveform (Note 1, FIG.3)                                                    | $I_{PPM}$      | SEE TABLE 1  | Amps  |
| Steady State Power Dissipation at $T_L=75^\circ$ Lead Lengths .375", (9.5mm) (Note 2)                       | $P_{M(AV)}$    | 8.0          | Watts |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load, (JEDEC Method) (Note 3) | $I_{FSM}$      | 400          | Amps  |
| Operating Junction and Storage Temperature Range                                                            | $T_J, T_{STG}$ | -55 to +175  |       |

NOTES:

- 1.Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^\circ$  per Fig. 2.
- 2.Mounted on Copper Leaf area of  $0.79\text{in}^2$  ( $20\text{mm}^2$ ).
- 3.Measured on 8.3ms single half sine-wave or equivalent square wave, duty cycle= 4 pulses per minutes maximum.

## **RATING AND CHARACTERISTIC CURVES 5KP SERIES**

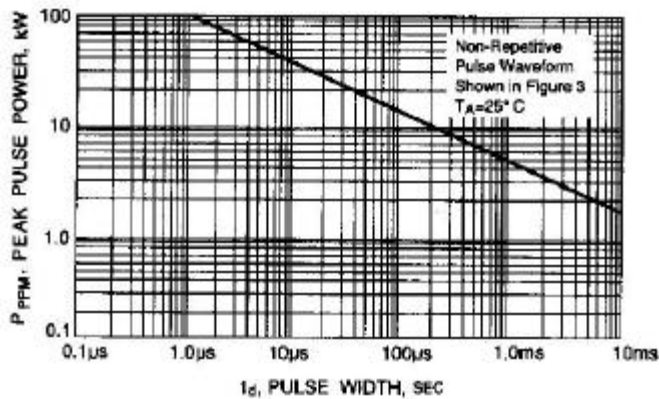


Fig. 1-PEAK PULSE POWER RATING CURVE

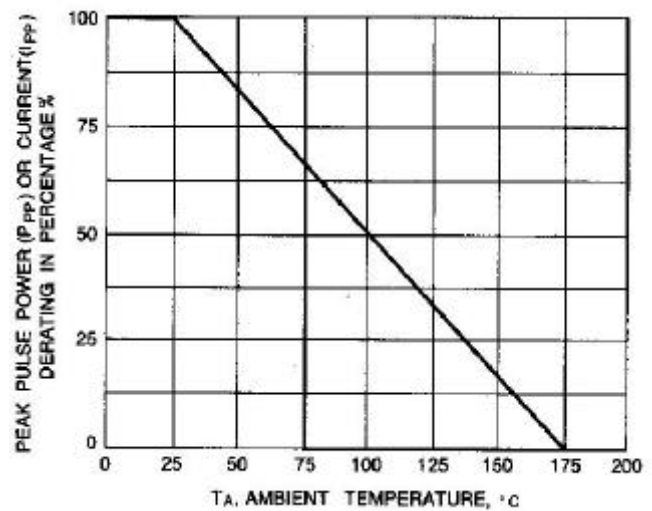


Fig. 2-PULSE DERATING CURVE

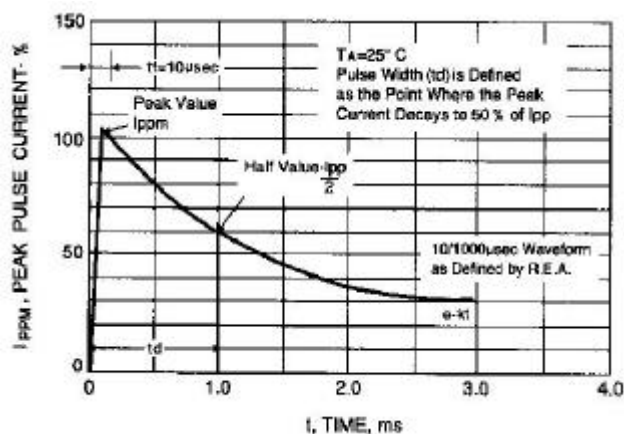


Fig. 3-PULSE WAVEFORM

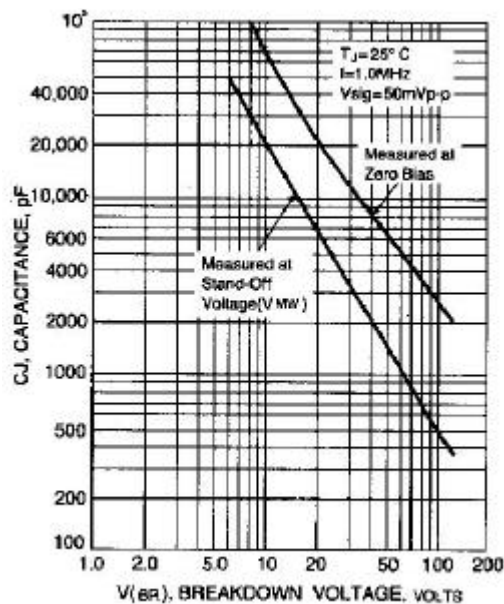


Fig. 4-TYPICAL JUNCTION CAPACITANCE

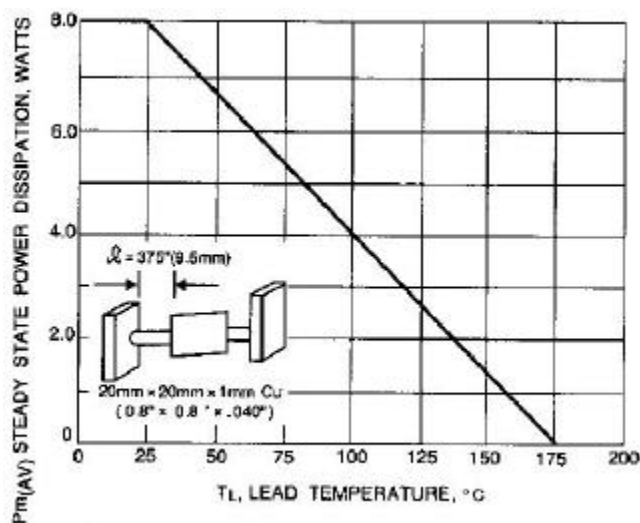


Fig. 5-STEADY STATE POWER DERATING

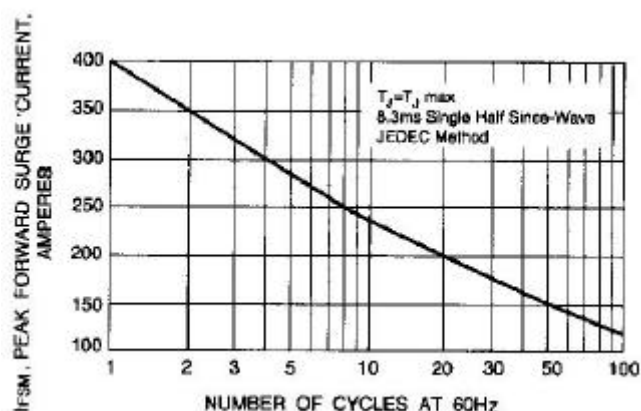


Fig. 6-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

#### UNI-DIRECTIONAL 5000 Watt Axial Lead TVS

| UNI-DIRECTIONAL 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| 5KP5.0                      | 5.00                               | 6.40                               | 7.30                               | 50                   | 9.6                                  | 520                        | 2000                          |
| 5KP5.0A                     | 5.00                               | 6.40                               | 7.00                               | 50                   | 9.2                                  | 543                        | 2000                          |
| 5KP6.0                      | 6.00                               | 6.67                               | 8.15                               | 50                   | 11.4                                 | 439                        | 5000                          |
| 5KP6.0A                     | 6.00                               | 6.67                               | 7.37                               | 50                   | 10.3                                 | 485                        | 5000                          |
| 5KP6.5                      | 6.50                               | 7.22                               | 8.82                               | 50                   | 12.3                                 | 407                        | 2000                          |
| 5KP6.5A                     | 6.50                               | 7.22                               | 7.98                               | 50                   | 11.2                                 | 447                        | 2000                          |
| 5KP7.0                      | 7.00                               | 7.78                               | 9.51                               | 50                   | 13.3                                 | 378                        | 1000                          |
| 5KP7.0A                     | 7.00                               | 7.78                               | 8.60                               | 50                   | 12.0                                 | 417                        | 1000                          |
| 5KP7.5                      | 7.50                               | 8.33                               | 10.20                              | 5                    | 14.3                                 | 350                        | 250                           |
| 5KP7.5A                     | 7.50                               | 8.33                               | 9.21                               | 5                    | 12.9                                 | 388                        | 250                           |
| 5KP8.0                      | 8.00                               | 8.89                               | 10.90                              | 5                    | 15.0                                 | 333                        | 150                           |
| 5KP8.0A                     | 8.00                               | 8.89                               | 9.83                               | 5                    | 13.6                                 | 367                        | 150                           |
| 5KP8.5                      | 8.50                               | 9.44                               | 11.50                              | 5                    | 15.9                                 | 314                        | 50                            |
| 5KP8.5A                     | 8.50                               | 9.44                               | 10.40                              | 5                    | 14.4                                 | 347                        | 50                            |
| 5KP9.0                      | 9.00                               | 10.00                              | 12.20                              | 5                    | 16.9                                 | 295                        | 20                            |
| 5KP9.0A                     | 9.00                               | 10.00                              | 11.10                              | 5                    | 15.4                                 | 325                        | 20                            |
| 5KP10                       | 10.00                              | 11.10                              | 13.60                              | 5                    | 18.8                                 | 266                        | 10                            |
| 5KP10A                      | 10.00                              | 11.10                              | 12.30                              | 5                    | 17.0                                 | 294                        | 10                            |

|        |       |       |       |   |       |     |    |
|--------|-------|-------|-------|---|-------|-----|----|
| 5KP11  | 11.00 | 12.20 | 14.90 | 5 | 20.1  | 249 | 10 |
| 5KP11A | 11.00 | 12.20 | 13.50 | 5 | 18.2  | 274 | 10 |
| 5KP12  | 12.00 | 13.30 | 16.30 | 5 | 22.0  | 227 | 10 |
| 5KP12A | 12.00 | 13.30 | 14.70 | 5 | 19.9  | 251 | 10 |
| 5KP13  | 13.00 | 14.40 | 17.60 | 5 | 23.8  | 210 | 10 |
| 5KP13A | 13.00 | 14.40 | 15.90 | 5 | 21.5  | 232 | 10 |
| 5KP14  | 14.00 | 15.60 | 19.10 | 5 | 25.8  | 194 | 10 |
| 5KP14A | 14.00 | 15.60 | 17.20 | 5 | 23.2  | 215 | 10 |
| 5KP15  | 15.00 | 16.70 | 20.40 | 5 | 26.9  | 188 | 10 |
| 5KP15A | 15.00 | 16.70 | 18.50 | 5 | 24.4  | 206 | 10 |
| 5KP16  | 16.00 | 17.80 | 21.80 | 5 | 28.8  | 176 | 10 |
| 5KP16A | 16.00 | 17.80 | 19.70 | 5 | 26.0  | 192 | 10 |
| 5KP17  | 17.00 | 18.90 | 23.10 | 5 | 30.5  | 164 | 10 |
| 5KP17A | 17.00 | 18.90 | 20.90 | 5 | 27.6  | 181 | 10 |
| 5KP18  | 18.00 | 20.00 | 24.40 | 5 | 32.2  | 155 | 10 |
| 5KP18A | 18.00 | 20.00 | 22.10 | 5 | 29.2  | 172 | 10 |
| 5KP20  | 20.00 | 22.20 | 27.10 | 5 | 35.8  | 139 | 10 |
| 5KP20A | 20.00 | 22.20 | 24.50 | 5 | 32.4  | 154 | 10 |
| 5KP22  | 22.00 | 24.40 | 29.80 | 5 | 39.4  | 127 | 10 |
| 5KP22A | 22.00 | 24.40 | 26.90 | 5 | 35.5  | 141 | 10 |
| 5KP24  | 24.00 | 26.70 | 32.60 | 5 | 43.0  | 116 | 10 |
| 5KP24A | 24.00 | 26.70 | 29.50 | 5 | 38.9  | 128 | 10 |
| 5KP26  | 26.00 | 28.90 | 35.30 | 5 | 46.6  | 107 | 10 |
| 5KP26A | 26.00 | 28.90 | 31.90 | 5 | 42.1  | 119 | 10 |
| 5KP28  | 28.00 | 31.10 | 38.00 | 5 | 50.0  | 99  | 10 |
| 5KP28A | 28.00 | 31.10 | 34.40 | 5 | 45.4  | 110 | 10 |
| 5KP30  | 30.00 | 33.30 | 40.70 | 5 | 53.5  | 93  | 10 |
| 5KP30A | 30.00 | 33.30 | 36.80 | 5 | 48.4  | 103 | 10 |
| 5KP33  | 33.00 | 36.70 | 44.90 | 5 | 59.0  | 85  | 10 |
| 5KP33A | 33.00 | 36.70 | 40.60 | 5 | 53.3  | 94  | 10 |
| 5KP36  | 36.00 | 40.00 | 48.90 | 5 | 64.3  | 78  | 10 |
| 5KP36A | 36.00 | 40.00 | 44.20 | 5 | 58.1  | 85  | 10 |
| 5KP40  | 40.00 | 44.40 | 54.30 | 5 | 71.4  | 70  | 10 |
| 5KP40A | 40.00 | 44.40 | 49.10 | 5 | 64.5  | 78  | 10 |
| 5KP43  | 43.00 | 47.80 | 58.40 | 5 | 76.7  | 65  | 10 |
| 5KP43A | 43.00 | 47.80 | 52.80 | 5 | 69.4  | 72  | 10 |
| 5KP45  | 45.00 | 50.00 | 61.10 | 5 | 80.3  | 62  | 10 |
| 5KP45A | 45.00 | 50.00 | 55.30 | 5 | 72.7  | 69  | 10 |
| 5KP48  | 48.00 | 53.30 | 65.10 | 5 | 85.5  | 58  | 10 |
| 5KP48A | 48.00 | 53.30 | 58.90 | 5 | 77.4  | 65  | 10 |
| 5KP51  | 51.00 | 56.70 | 69.30 | 5 | 91.1  | 55  | 10 |
| 5KP51A | 51.00 | 56.70 | 62.70 | 5 | 82.4  | 61  | 10 |
| 5KP54  | 54.00 | 60.00 | 73.30 | 5 | 96.3  | 52  | 10 |
| 5KP54A | 54.00 | 60.00 | 66.30 | 5 | 87.1  | 57  | 10 |
| 5KP58  | 58.00 | 64.40 | 78.70 | 5 | 103.0 | 49  | 10 |
| 5KP58A | 58.00 | 64.40 | 71.20 | 5 | 93.6  | 53  | 10 |
| 5KP60  | 60.00 | 66.70 | 81.50 | 5 | 107.0 | 47  | 10 |
| 5KP60A | 60.00 | 66.70 | 73.70 | 5 | 96.8  | 52  | 10 |
| 5KP64  | 64.00 | 71.10 | 86.90 | 5 | 114.0 | 44  | 10 |
| 5KP64A | 64.00 | 71.10 | 78.60 | 5 | 103.0 | 49  | 10 |

UNI-DIRECTIONAL 5000 Watt Axial Lead TVS

| UNI-DIRECTIONAL<br>PART<br>NUMBER | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|-----------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------|-----------------------------------------------------------|-------------------------------------------------|----------------------------------------|
| 5KP70                             | 70.00                                       | 77.80                                       | 95.10                                       | 5                             | 125.0                                                     | 40                                              | 10                                     |
| 5KP70A                            | 70.00                                       | 77.80                                       | 86.00                                       | 5                             | 113.0                                                     | 44                                              | 10                                     |
| 5KP75                             | 75.00                                       | 83.30                                       | 102.00                                      | 5                             | 134.0                                                     | 37                                              | 10                                     |
| 5KP75A                            | 75.00                                       | 83.30                                       | 92.10                                       | 5                             | 121.0                                                     | 41                                              | 10                                     |
| 5KP78                             | 78.00                                       | 86.70                                       | 106.00                                      | 5                             | 139.0                                                     | 36                                              | 10                                     |
| 5KP78A                            | 78.00                                       | 86.70                                       | 95.80                                       | 5                             | 126.0                                                     | 40                                              | 10                                     |
| 5KP85                             | 85.00                                       | 94.40                                       | 115.00                                      | 5                             | 151.0                                                     | 33                                              | 10                                     |
| 5KP85A                            | 85.00                                       | 94.40                                       | 104.00                                      | 5                             | 137.0                                                     | 36                                              | 10                                     |
| 5KP90                             | 90.00                                       | 100.00                                      | 122.00                                      | 5                             | 160.0                                                     | 31                                              | 10                                     |
| 5KP90A                            | 90.00                                       | 100.00                                      | 111.00                                      | 5                             | 146.0                                                     | 34                                              | 10                                     |
| 5KP100                            | 100.00                                      | 111.00                                      | 136.00                                      | 5                             | 179.0                                                     | 28                                              | 10                                     |
| 5KP100A                           | 100.00                                      | 111.00                                      | 123.00                                      | 5                             | 162.0                                                     | 31                                              | 10                                     |
| 5KP110                            | 110.00                                      | 122.00                                      | 149.00                                      | 5                             | 196.0                                                     | 26                                              | 10                                     |
| 5KP110A                           | 110.00                                      | 122.00                                      | 135.00                                      | 5                             | 177.0                                                     | 28                                              | 10                                     |

**BI-DIRECTIONAL 5000 Watt Axial Lead TVS**

| BI-DIRECTIONAL<br>PART<br>NUMBER | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|----------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------|-----------------------------------------------------------|-------------------------------------------------|----------------------------------------|
| 5KP5.0C                          | 5.00                                        | 6.40                                        | 7.30                                        | 50                            | 9.6                                                       | 520                                             | 4000                                   |
| 5KP5.0CA                         | 5.00                                        | 6.40                                        | 7.00                                        | 50                            | 9.2                                                       | 543                                             | 4000                                   |
| 5KP6.0C                          | 6.00                                        | 6.67                                        | 8.15                                        | 50                            | 11.4                                                      | 439                                             | 10000                                  |
| 5KP6.0CA                         | 6.00                                        | 6.67                                        | 7.37                                        | 50                            | 10.3                                                      | 485                                             | 10000                                  |
| 5KP6.5C                          | 6.50                                        | 7.22                                        | 8.82                                        | 50                            | 12.3                                                      | 407                                             | 4000                                   |
| 5KP6.5CA                         | 6.50                                        | 7.22                                        | 7.98                                        | 50                            | 11.2                                                      | 447                                             | 4000                                   |
| 5KP7.0C                          | 7.00                                        | 7.78                                        | 9.51                                        | 50                            | 13.3                                                      | 378                                             | 2000                                   |
| 5KP7.0CA                         | 7.00                                        | 7.78                                        | 8.60                                        | 50                            | 12.0                                                      | 417                                             | 2000                                   |
| 5KP7.5C                          | 7.50                                        | 8.33                                        | 10.20                                       | 5                             | 14.3                                                      | 350                                             | 500                                    |
| 5KP7.5CA                         | 7.50                                        | 8.33                                        | 9.21                                        | 5                             | 12.9                                                      | 388                                             | 500                                    |
| 5KP8.0C                          | 8.00                                        | 8.89                                        | 10.90                                       | 5                             | 15.0                                                      | 333                                             | 300                                    |
| 5KP8.0CA                         | 8.00                                        | 8.89                                        | 9.83                                        | 5                             | 13.6                                                      | 367                                             | 300                                    |
| 5KP8.5C                          | 8.50                                        | 9.44                                        | 11.50                                       | 5                             | 15.9                                                      | 314                                             | 100                                    |
| 5KP8.5CA                         | 8.50                                        | 9.44                                        | 10.40                                       | 5                             | 14.4                                                      | 347                                             | 100                                    |
| 5KP9.0C                          | 9.00                                        | 10.00                                       | 12.20                                       | 5                             | 16.9                                                      | 295                                             | 40                                     |
| 5KP9.0CA                         | 9.00                                        | 10.00                                       | 11.10                                       | 5                             | 15.4                                                      | 325                                             | 40                                     |
| 5KP10C                           | 10.00                                       | 11.10                                       | 13.60                                       | 5                             | 18.8                                                      | 266                                             | 10                                     |
| 5KP10CA                          | 10.00                                       | 11.10                                       | 12.30                                       | 5                             | 17.0                                                      | 294                                             | 10                                     |
| 5KP11C                           | 11.00                                       | 12.20                                       | 14.90                                       | 5                             | 20.1                                                      | 249                                             | 10                                     |
| 5KP11CA                          | 11.00                                       | 12.20                                       | 13.50                                       | 5                             | 18.2                                                      | 274                                             | 10                                     |
| 5KP12C                           | 12.00                                       | 13.30                                       | 16.30                                       | 5                             | 22.0                                                      | 227                                             | 10                                     |
| 5KP12CA                          | 12.00                                       | 13.30                                       | 14.70                                       | 5                             | 19.9                                                      | 251                                             | 10                                     |
| 5KP13C                           | 13.00                                       | 14.40                                       | 17.60                                       | 5                             | 23.8                                                      | 210                                             | 10                                     |
| 5KP13CA                          | 13.00                                       | 14.40                                       | 15.90                                       | 5                             | 21.5                                                      | 232                                             | 10                                     |
| 5KP14C                           | 14.00                                       | 15.60                                       | 19.10                                       | 5                             | 25.8                                                      | 194                                             | 10                                     |
| 5KP14CA                          | 14.00                                       | 15.60                                       | 17.20                                       | 5                             | 23.2                                                      | 215                                             | 10                                     |
| 5KP15C                           | 15.00                                       | 16.70                                       | 20.40                                       | 5                             | 26.9                                                      | 188                                             | 10                                     |
| 5KP15CA                          | 15.00                                       | 16.70                                       | 18.50                                       | 5                             | 24.4                                                      | 206                                             | 10                                     |
| 5KP16C                           | 16.00                                       | 17.80                                       | 21.80                                       | 5                             | 28.8                                                      | 176                                             | 10                                     |
| 5KP16CA                          | 16.00                                       | 17.80                                       | 19.70                                       | 5                             | 26.0                                                      | 192                                             | 10                                     |
| 5KP17C                           | 17.00                                       | 18.90                                       | 23.10                                       | 5                             | 30.5                                                      | 164                                             | 10                                     |
| 5KP17CA                          | 17.00                                       | 18.90                                       | 20.90                                       | 5                             | 27.6                                                      | 181                                             | 10                                     |
| 5KP18C                           | 18.00                                       | 20.00                                       | 24.40                                       | 5                             | 32.2                                                      | 155                                             | 10                                     |
| 5KP18CA                          | 18.00                                       | 20.00                                       | 22.10                                       | 5                             | 29.2                                                      | 172                                             | 10                                     |
| 5KP20C                           | 20.00                                       | 22.20                                       | 27.10                                       | 5                             | 35.8                                                      | 139                                             | 10                                     |
| 5KP20CA                          | 20.00                                       | 22.20                                       | 24.50                                       | 5                             | 32.4                                                      | 154                                             | 10                                     |
| 5KP22C                           | 22.00                                       | 24.40                                       | 29.80                                       | 5                             | 39.4                                                      | 127                                             | 10                                     |
| 5KP22CA                          | 22.00                                       | 24.40                                       | 26.90                                       | 5                             | 35.5                                                      | 141                                             | 10                                     |
| 5KP24C                           | 24.00                                       | 26.70                                       | 32.60                                       | 5                             | 43.0                                                      | 116                                             | 10                                     |
| 5KP24CA                          | 24.00                                       | 26.70                                       | 29.50                                       | 5                             | 38.9                                                      | 128                                             | 10                                     |
| 5KP26C                           | 26.00                                       | 28.90                                       | 35.30                                       | 5                             | 46.6                                                      | 107                                             | 10                                     |
| 5KP26CA                          | 26.00                                       | 28.90                                       | 31.90                                       | 5                             | 42.1                                                      | 119                                             | 10                                     |
| 5KP28C                           | 28.00                                       | 31.10                                       | 38.00                                       | 5                             | 50.0                                                      | 99                                              | 10                                     |
| 5KP28CA                          | 28.00                                       | 31.10                                       | 34.40                                       | 5                             | 45.4                                                      | 110                                             | 10                                     |
| 5KP30C                           | 30.00                                       | 33.30                                       | 40.70                                       | 5                             | 53.5                                                      | 93                                              | 10                                     |
| 5KP30CA                          | 30.00                                       | 33.30                                       | 36.80                                       | 5                             | 48.4                                                      | 103                                             | 10                                     |
| 5KP33C                           | 33.00                                       | 36.70                                       | 44.90                                       | 5                             | 59.0                                                      | 85                                              | 10                                     |
| 5KP33CA                          | 33.00                                       | 36.70                                       | 40.60                                       | 5                             | 53.3                                                      | 94                                              | 10                                     |
| 5KP36C                           | 36.00                                       | 40.00                                       | 48.90                                       | 5                             | 64.3                                                      | 78                                              | 10                                     |
| 5KP36CA                          | 36.00                                       | 40.00                                       | 44.20                                       | 5                             | 58.1                                                      | 85                                              | 10                                     |
| 5KP40C                           | 40.00                                       | 44.40                                       | 54.30                                       | 5                             | 71.4                                                      | 70                                              | 10                                     |
| 5KP40CA                          | 40.00                                       | 44.40                                       | 49.10                                       | 5                             | 64.5                                                      | 78                                              | 10                                     |
| 5KP43C                           | 43.00                                       | 47.80                                       | 58.40                                       | 5                             | 76.7                                                      | 65                                              | 10                                     |
| 5KP43CA                          | 43.00                                       | 47.80                                       | 52.80                                       | 5                             | 69.4                                                      | 72                                              | 10                                     |
| 5KP45C                           | 45.00                                       | 50.00                                       | 61.10                                       | 5                             | 80.3                                                      | 62                                              | 10                                     |
| 5KP45CA                          | 45.00                                       | 50.00                                       | 55.30                                       | 5                             | 72.7                                                      | 69                                              | 10                                     |
| 5KP48C                           | 48.00                                       | 53.30                                       | 65.10                                       | 5                             | 85.5                                                      | 58                                              | 10                                     |
| 5KP48CA                          | 48.00                                       | 53.30                                       | 58.90                                       | 5                             | 77.4                                                      | 65                                              | 10                                     |
| 5KP51C                           | 51.00                                       | 56.70                                       | 69.30                                       | 5                             | 91.1                                                      | 55                                              | 10                                     |
| 5KP51CA                          | 51.00                                       | 56.70                                       | 62.70                                       | 5                             | 82.4                                                      | 61                                              | 10                                     |
| 5KP54C                           | 54.00                                       | 60.00                                       | 73.30                                       | 5                             | 96.3                                                      | 52                                              | 10                                     |
| 5KP54CA                          | 54.00                                       | 60.00                                       | 66.30                                       | 5                             | 87.1                                                      | 57                                              | 10                                     |
| 5KP58C                           | 58.00                                       | 64.40                                       | 78.70                                       | 5                             | 103.0                                                     | 49                                              | 10                                     |
| 5KP58CA                          | 58.00                                       | 64.40                                       | 71.20                                       | 5                             | 93.6                                                      | 53                                              | 10                                     |
| 5KP60C                           | 60.00                                       | 66.70                                       | 81.50                                       | 5                             | 107.0                                                     | 47                                              | 10                                     |
| 5KP60CA                          | 60.00                                       | 66.70                                       | 73.70                                       | 5                             | 96.8                                                      | 52                                              | 10                                     |
| 5KP64C                           | 64.00                                       | 71.10                                       | 86.90                                       | 5                             | 114.0                                                     | 44                                              | 10                                     |
| 5KP64CA                          | 64.00                                       | 71.10                                       | 78.60                                       | 5                             | 103.0                                                     | 49                                              | 10                                     |

BI-DIRECTIONAL 5000 Watt Axial Lead TVS

| BI-DIRECTIONAL<br>PART<br>NUMBER | REVERSE<br>STAND-OFF<br>VOLTAGE<br>VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V)<br>MAX. @IT | TEST<br>CURRENT<br>IT<br>(mA) | MAXIMUM<br>CLAMPING<br>VOLTAGE<br>@I <sub>PP</sub> VC (V) | PEAK<br>PULSE<br>CURRENT<br>I <sub>PP</sub> (A) | REVERSE<br>LEAKAGE<br>@VRWM<br>IR (uA) |
|----------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------|-----------------------------------------------------------|-------------------------------------------------|----------------------------------------|
| 5KP70                            | 70.00                                       | 77.80                                       | 95.10                                       | 5                             | 125.0                                                     | 40                                              | 10                                     |
| 5KP70CA                          | 70.00                                       | 77.80                                       | 86.00                                       | 5                             | 113.0                                                     | 44                                              | 10                                     |
| 5KP75                            | 75.00                                       | 83.30                                       | 102.00                                      | 5                             | 134.0                                                     | 37                                              | 10                                     |
| 5KP75CA                          | 75.00                                       | 83.30                                       | 92.10                                       | 5                             | 121.0                                                     | 41                                              | 10                                     |
| 5KP78                            | 78.00                                       | 86.70                                       | 106.00                                      | 5                             | 139.0                                                     | 36                                              | 10                                     |
| 5KP78CA                          | 78.00                                       | 86.70                                       | 95.80                                       | 5                             | 126.0                                                     | 40                                              | 10                                     |
| 5KP85                            | 85.00                                       | 94.40                                       | 115.00                                      | 5                             | 151.0                                                     | 33                                              | 10                                     |
| 5KP85CA                          | 85.00                                       | 94.40                                       | 104.00                                      | 5                             | 137.0                                                     | 36                                              | 10                                     |
| 5KP90                            | 90.00                                       | 100.00                                      | 122.00                                      | 5                             | 160.0                                                     | 31                                              | 10                                     |
| 5KP90CA                          | 90.00                                       | 100.00                                      | 111.00                                      | 5                             | 146.0                                                     | 34                                              | 10                                     |
| 5KP100                           | 100.00                                      | 111.00                                      | 136.00                                      | 5                             | 179.0                                                     | 28                                              | 10                                     |
| 5KP100CA                         | 100.00                                      | 111.00                                      | 123.00                                      | 5                             | 162.0                                                     | 31                                              | 10                                     |
| 5KP110                           | 110.00                                      | 122.00                                      | 149.00                                      | 5                             | 196.0                                                     | 26                                              | 10                                     |
| 5KP110CA                         | 110.00                                      | 122.00                                      | 135.00                                      | 5                             | 177.0                                                     | 28                                              | 10                                     |