

# P6KE SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 6.8 TO 440 Volts

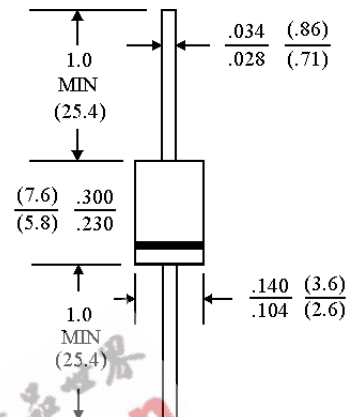
600Watt Peak Power

5.0 Watt Steady State

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in DO-15 package
- 600W 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  $1 \mu A$  above 10V
- High temperature soldering guaranteed:  $260^\circ C / 10 \text{ seconds} / .375'' (9.5\text{mm})$  lead length/5lbs., (2.3kg) tension

### DO-15



Dimensions in inches and (millimeters)

### MECHANICAL DATA

Case: JEDEC DO-15 molded plastic

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

Polarity: Color band denoted cathode except Bipolar

Mounting Position: Any

Weight: 0.015 ounce, 0.4 gram

### DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types P6KE6.8 thru types P6KE440

Electrical characteristics apply in both directions.

### MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at  $25^\circ C$  ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| RATING  | SYMBOL    | VALUE       | UNITS |
|---|-----------|-------------|-------|
| Peak Power Dissipation at $T_A=25^\circ C$ , $T_P=1\text{ms}$ (Note 1)                                    | $P_{PK}$  | Minimum 600 | Watts |
| Steady State Power Dissipation at $T_L=75^\circ C$ Lead Lengths $.375'' (9.5\text{mm})$ (Note 2)          | PD        | 5.0         | Watts |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3) | $I_{FSM}$ | 100         | Amps  |

NOTES:

- 1.Non-repetitive current pulse, per Fig. 3 and derated above T<sub>A</sub>=25°C per Fig. 2.
- 2.Mounted on Copper Leaf area of 1.57in<sup>2</sup>(40mm<sup>2</sup>).
- 3.8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.

**RATING AND CHARACTERISTIC CURVES P6KE SERIES**



Fig. 1-PEAK PULSE POWER RATING CURVE

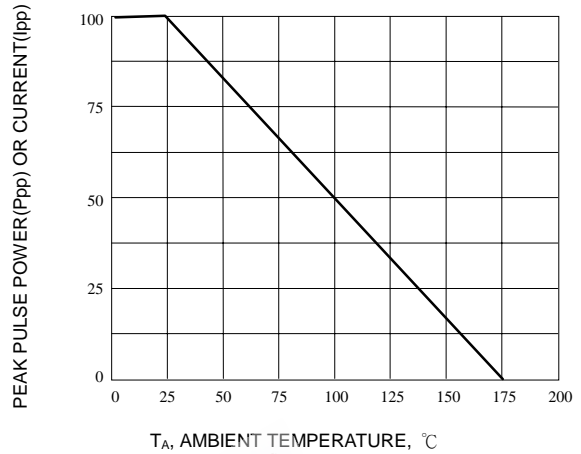


Fig. 2-PULSE DERATING CURVE

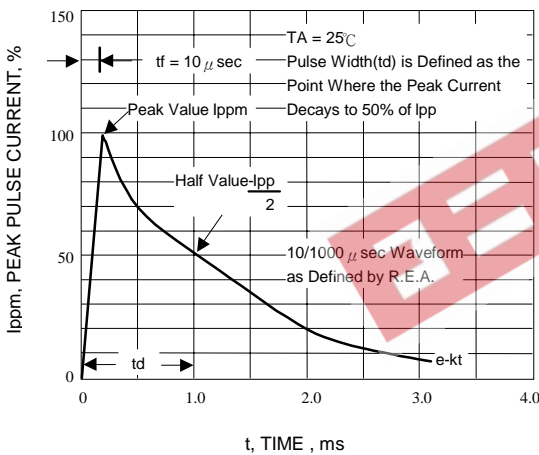


Fig. 3-PULSE WAVEFORM

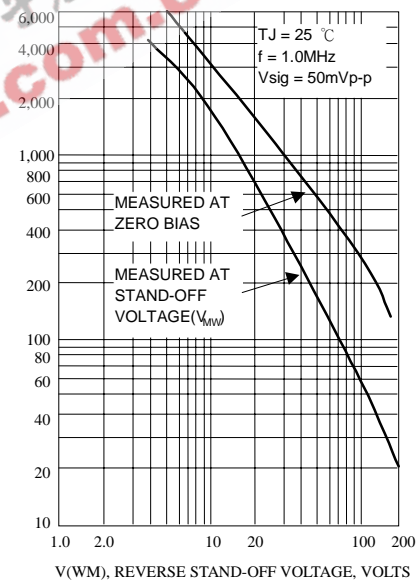


Fig. 4-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

Pm(AV) STEADY STATE POWER

IISM, PEAK FORWARD SURGE

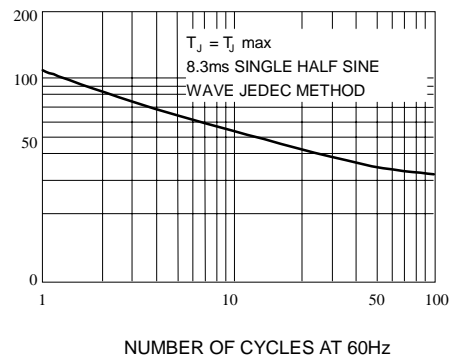


Fig. 5-STEADY STATE POWER DERATING CURVE

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

**UNI-DIRECTIONAL 600 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| P6KE6.8                     | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8                                 | 56.0                       | 1000                          |
| P6KE6.8A                    | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5                                 | 57.0                       | 1000                          |
| P6KE7.5                     | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7                                 | 51.0                       | 500                           |
| P6KE7.5A                    | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3                                 | 53.0                       | 500                           |
| P6KE8.2                     | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5                                 | 48.0                       | 200                           |
| P6KE8.2A                    | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1                                 | 50.0                       | 200                           |
| P6KE9.1                     | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8                                 | 44.0                       | 50                            |
| P6KE9.1A                    | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4                                 | 45.0                       | 50                            |
| P6KE10                      | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0                                 | 40.0                       | 10                            |
| P6KE10A                     | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5                                 | 41.0                       | 10                            |
| P6KE11                      | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2                                 | 37.0                       | 5                             |
| P6KE11A                     | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6                                 | 38.0                       | 5                             |
| P6KE12                      | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3                                 | 35.0                       | 5                             |
| P6KE12A                     | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7                                 | 36.0                       | 5                             |
| P6KE13                      | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0                                 | 32.0                       | 5                             |
| P6KE13A                     | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2                                 | 33.0                       | 5                             |
| P6KE15                      | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0                                 | 27.0                       | 5                             |
| P6KE15A                     | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2                                 | 28.0                       | 5                             |
| P6KE16                      | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5                                 | 26.0                       | 5                             |
| P6KE16A                     | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5                                 | 27.0                       | 5                             |
| P6KE18                      | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5                                 | 23.0                       | 5                             |
| P6KE18A                     | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2                                 | 24.0                       | 5                             |
| P6KE20                      | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1                                 | 21.0                       | 5                             |
| P6KE20A                     | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7                                 | 22.0                       | 5                             |
| P6KE22                      | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9                                 | 19.0                       | 5                             |
| P6KE22A                     | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6                                 | 20.0                       | 5                             |
| P6KE24                      | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7                                 | 17.0                       | 5                             |
| P6KE24A                     | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2                                 | 18.0                       | 5                             |
| P6KE27                      | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1                                 | 15.0                       | 5                             |
| P6KE27A                     | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5                                 | 16.0                       | 5                             |
| P6KE30                      | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5                                 | 14.0                       | 5                             |
| P6KE30A                     | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4                                 | 14.4                       | 5                             |
| P6KE33                      | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7                                 | 12.6                       | 5                             |
| P6KE33A                     | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7                                 | 13.2                       | 5                             |
| P6KE36                      | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0                                 | 11.6                       | 5                             |
| P6KE36A                     | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9                                 | 12.0                       | 5                             |
| P6KE39                      | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4                                 | 10.6                       | 5                             |
| P6KE39A                     | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9                                 | 11.2                       | 5                             |
| P6KE43                      | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9                                 | 9.6                        | 5                             |
| P6KE43A                     | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3                                 | 10.1                       | 5                             |
| P6KE47                      | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8                                 | 8.9                        | 5                             |
| P6KE47A                     | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8                                 | 9.3                        | 5                             |
| P6KE51                      | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5                                 | 8.2                        | 5                             |
| P6KE51A                     | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1                                 | 8.6                        | 5                             |
| P6KE56                      | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5                                 | 7.4                        | 5                             |
| P6KE56A                     | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0                                 | 7.8                        | 5                             |
| P6KE62                      | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0                                 | 6.8                        | 5                             |
| P6KE62A                     | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0                                 | 7.1                        | 5                             |

|          |        |        |        |   |       |     |   |
|----------|--------|--------|--------|---|-------|-----|---|
| P6KE68   | 55.10  | 61.20  | 74.80  | 1 | 98.0  | 6.1 | 5 |
| P6KE68A  | 58.10  | 64.60  | 71.40  | 1 | 92.0  | 6.5 | 5 |
| P6KE75   | 60.70  | 67.50  | 82.50  | 1 | 108.0 | 5.5 | 5 |
| P6KE75A  | 64.10  | 71.30  | 78.80  | 1 | 103.0 | 5.8 | 5 |
| P6KE82   | 66.40  | 73.80  | 90.20  | 1 | 118.0 | 5.1 | 5 |
| P6KE82A  | 70.10  | 77.90  | 86.10  | 1 | 113.0 | 5.3 | 5 |
| P6KE91   | 73.70  | 81.90  | 100.00 | 1 | 131.0 | 4.5 | 5 |
| P6KE91A  | 77.80  | 86.50  | 95.50  | 1 | 125.0 | 4.8 | 5 |
| P6KE100  | 81.00  | 90.00  | 110.00 | 1 | 144.0 | 4.2 | 5 |
| P6KE100A | 85.50  | 95.00  | 105.00 | 1 | 137.0 | 4.4 | 5 |
| P6KE110  | 89.20  | 99.00  | 121.00 | 1 | 158.0 | 3.8 | 5 |
| P6KE110A | 94.00  | 105.00 | 116.00 | 1 | 152.0 | 4.0 | 5 |
| P6KE120  | 97.20  | 108.00 | 132.00 | 1 | 173.0 | 3.5 | 5 |
| P6KE120A | 102.00 | 114.00 | 126.00 | 1 | 165.0 | 3.6 | 5 |
| P6KE130  | 105.00 | 117.00 | 143.00 | 1 | 187.0 | 3.2 | 5 |
| P6KE130A | 111.00 | 124.00 | 137.00 | 1 | 179.0 | 3.3 | 5 |

#### UNI-DIRECTIONAL 600 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| P6KE150                     | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0                                | 2.8                        | 5                             |
| P6KE150A                    | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0                                | 2.9                        | 5                             |
| P6KE160                     | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0                                | 2.6                        | 5                             |
| P6KE160A                    | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0                                | 2.7                        | 5                             |
| P6KE170                     | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0                                | 2.5                        | 5                             |
| P6KE170A                    | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0                                | 2.6                        | 5                             |
| P6KE180                     | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0                                | 2.3                        | 5                             |
| P6KE180A                    | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0                                | 2.4                        | 5                             |
| P6KE200                     | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0                                | 2.1                        | 5                             |
| P6KE200A                    | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0                                | 2.2                        | 5                             |
| P6KE220                     | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0                                | 1.8                        | 5                             |
| P6KE220A                    | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0                                | 1.9                        | 5                             |
| P6KE250                     | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0                                | 1.7                        | 5                             |
| P6KE250A                    | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0                                | 1.8                        | 5                             |
| P6KE300                     | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0                                | 1.4                        | 5                             |
| P6KE300A                    | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0                                | 1.5                        | 5                             |
| P6KE350                     | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0                                | 1.2                        | 5                             |
| P6KE350A                    | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0                                | 1.3                        | 5                             |
| P6KE400                     | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0                                | 1.05                       | 5                             |
| P6KE400A                    | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0                                | 1.10                       | 5                             |
| P6KE440                     | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0                                | 0.99                       | 5                             |
| P6KE440A                    | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0                                | 1.04                       | 5                             |

### BI-DIRECTIONAL 600 Watt Axial Lead TVS

| BI-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 @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P6KE6.8C                   | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8   | 56.0                                   | 2000                          |
| P6KE6.8CA                  | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5   | 57.0                                   | 2000                          |
| P6KE7.5C                   | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7   | 51.0                                   | 1000                          |
| P6KE7.5CA                  | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3   | 53.0                                   | 1000                          |
| P6KE8.2C                   | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5   | 48.0                                   | 400                           |
| P6KE8.2CA                  | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1   | 50.0                                   | 400                           |
| P6KE9.1C                   | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8   | 44.0                                   | 100                           |
| P6KE9.1CA                  | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4   | 45.0                                   | 100                           |
| P6KE10C                    | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0   | 40.0                                   | 20                            |
| P6KE10CA                   | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5   | 41.0                                   | 20                            |
| P6KE11C                    | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2   | 37.0                                   | 10                            |
| P6KE11CA                   | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6   | 38.0                                   | 10                            |
| P6KE12C                    | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3   | 35.0                                   | 5                             |
| P6KE12CA                   | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7   | 36.0                                   | 5                             |
| P6KE13C                    | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0   | 32.0                                   | 5                             |
| P6KE13CA                   | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2   | 33.0                                   | 5                             |
| P6KE15C                    | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0   | 27.0                                   | 5                             |
| P6KE15CA                   | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2   | 28.0                                   | 5                             |
| P6KE16C                    | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5   | 26.0                                   | 5                             |
| P6KE16CA                   | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5   | 27.0                                   | 5                             |
| P6KE18C                    | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5   | 23.0                                   | 5                             |
| P6KE18CA                   | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2   | 24.0                                   | 5                             |
| P6KE20C                    | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1   | 21.0                                   | 5                             |
| P6KE20CA                   | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7   | 22.0                                   | 5                             |
| P6KE22C                    | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9   | 19.0                                   | 5                             |
| P6KE22CA                   | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6   | 20.0                                   | 5                             |
| P6KE24C                    | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7   | 17.0                                   | 5                             |
| P6KE24CA                   | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2   | 18.0                                   | 5                             |
| P6KE27C                    | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1   | 15.0                                   | 5                             |
| P6KE27CA                   | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5   | 16.0                                   | 5                             |
| P6KE30C                    | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5   | 14.0                                   | 5                             |
| P6KE30CA                   | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4   | 14.4                                   | 5                             |
| P6KE33C                    | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7   | 12.6                                   | 5                             |
| P6KE33CA                   | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7   | 13.2                                   | 5                             |
| P6KE36C                    | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0   | 11.6                                   | 5                             |
| P6KE36CA                   | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9   | 12.0                                   | 5                             |
| P6KE39C                    | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4   | 10.6                                   | 5                             |
| P6KE39CA                   | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9   | 11.2                                   | 5                             |
| P6KE43C                    | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9   | 9.6                                    | 5                             |
| P6KE43CA                   | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3   | 10.1                                   | 5                             |
| P6KE47C                    | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8   | 8.9                                    | 5                             |
| P6KE47CA                   | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8   | 9.3                                    | 5                             |
| P6KE51C                    | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5   | 8.2                                    | 5                             |
| P6KE51CA                   | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1   | 8.6                                    | 5                             |
| P6KE56C                    | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5   | 7.4                                    | 5                             |
| P6KE56CA                   | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0   | 7.8                                    | 5                             |
| P6KE62C                    | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0   | 6.8                                    | 5                             |
| P6KE62CA                   | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0   | 7.1                                    | 5                             |
| P6KE68C                    | 55.10                              | 61.20                              | 74.80                              | 1                    | 98.0   | 6.1                                    | 5                             |
| P6KE68CA                   | 58.10                              | 64.60                              | 71.40                              | 1                    | 92.0   | 6.5                                    | 5                             |
| P6KE75C                    | 60.70                              | 67.50                              | 82.50                              | 1                    | 108.0  | 5.5                                    | 5                             |
| P6KE75CA                   | 64.10                              | 71.30                              | 78.80                              | 1                    | 103.0  | 5.8                                    | 5                             |
| P6KE82C                    | 66.40                              | 73.80                              | 90.20                              | 1                    | 118.0  | 5.1                                    | 5                             |
| P6KE82CA                   | 70.10                              | 77.90                              | 86.10                              | 1                    | 113.0  | 5.3                                    | 5                             |
| P6KE91C                    | 73.70                              | 81.90                              | 100.00                             | 1                    | 131.0  | 4.5                                    | 5                             |

|           |        |        |        |   |       |     |   |
|-----------|--------|--------|--------|---|-------|-----|---|
| P6KE91CA  | 77.80  | 86.50  | 95.50  | 1 | 125.0 | 4.8 | 5 |
| P6KE100C  | 81.00  | 90.00  | 110.00 | 1 | 144.0 | 4.2 | 5 |
| P6KE100CA | 85.50  | 95.00  | 105.00 | 1 | 137.0 | 4.4 | 5 |
| P6KE110C  | 89.20  | 99.00  | 121.00 | 1 | 158.0 | 3.8 | 5 |
| P6KE110CA | 94.00  | 105.00 | 116.00 | 1 | 152.0 | 4.0 | 5 |
| P6KE120C  | 97.20  | 108.00 | 132.00 | 1 | 173.0 | 3.5 | 5 |
| P6KE120CA | 102.00 | 114.00 | 126.00 | 1 | 165.0 | 3.6 | 5 |
| P6KE130C  | 105.00 | 117.00 | 143.00 | 1 | 187.0 | 3.2 | 5 |
| P6KE130CA | 111.00 | 124.00 | 137.00 | 1 | 179.0 | 3.3 | 5 |

#### BI-DIRECTIONAL 600 Watt Axial Lead TVS

| BI-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 @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P6KE150C                   | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0  | 2.8                                    | 5                             |
| P6KE150CA                  | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0  | 2.9                                    | 5                             |
| P6KE160C                   | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0  | 2.6                                    | 5                             |
| P6KE160CA                  | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0  | 2.7                                    | 5                             |
| P6KE170C                   | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0  | 2.5                                    | 5                             |
| P6KE170CA                  | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0  | 2.6                                    | 5                             |
| P6KE180C                   | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0  | 2.3                                    | 5                             |
| P6KE180CA                  | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0  | 2.4                                    | 5                             |
| P6KE200C                   | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0  | 2.1                                    | 5                             |
| P6KE200CA                  | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0  | 2.2                                    | 5                             |
| P6KE220C                   | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0  | 1.8                                    | 5                             |
| P6KE220CA                  | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0  | 1.9                                    | 5                             |
| P6KE250C                   | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0  | 1.7                                    | 5                             |
| P6KE250CA                  | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0  | 1.8                                    | 5                             |
| P6KE300C                   | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0  | 1.4                                    | 5                             |
| P6KE300CA                  | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0  | 1.5                                    | 5                             |
| P6KE350C                   | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0  | 1.2                                    | 5                             |
| P6KE350CA                  | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0  | 1.3                                    | 5                             |
| P6KE400C                   | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0  | 1.05                                   | 5                             |
| P6KE400CA                  | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0  | 1.10                                   | 5                             |
| P6KE440C                   | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0  | 0.99                                   | 5                             |
| P6KE440CA                  | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0  | 1.04                                   | 5                             |

