

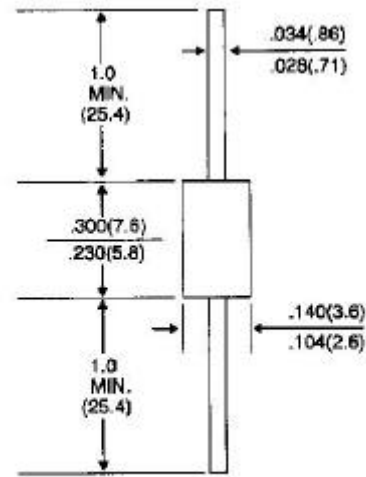
# P6KE SERIES

**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 A above 10V
- High temperature soldering guaranteed: 260 °C / 10 seconds / .375", (9.5mm) 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 °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 $T_A=25^\circ\text{C}$ , $T_P=1\text{ms}$ (Note 1)                              | $P_{PK}$       | Minimum 600 | Watts |
| Steady State Power Dissipation at $T_L=75^\circ\text{C}$ Lead Lengths .375", (9.5mm) (Note 2)             | PD             | 5.0         | Watts |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3) | $I_{FSM}$      | 100         | Amps  |
| Operating and Storage Temperature Range   | $T_J, T_{STG}$ | -65 to +175 |       |

NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25$  per Fig. 2.
2. Mounted on Copper Leaf area of  $1.57\text{in}^2 (40\text{mm}^2)$ .
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

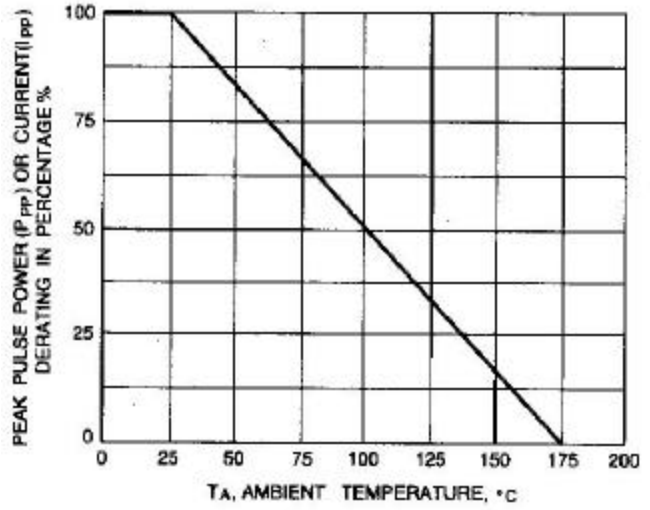


Fig. 2-PULSE DERATING CURVE

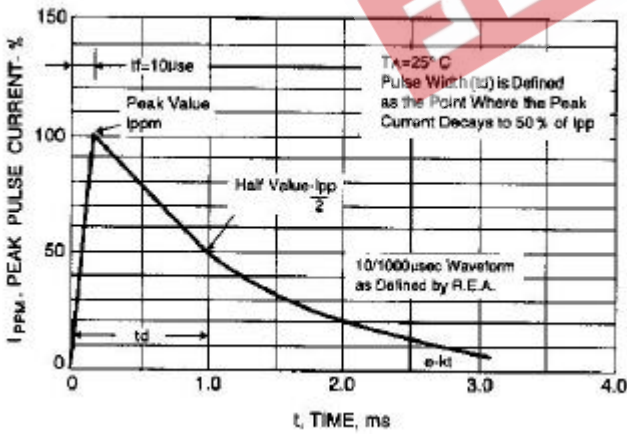


Fig. 3-PULSE WAVEFORM



Fig. 4-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL



Fig. 5-STEADY STATE POWER DERATING CURVE



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

### 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 @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (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 |
| 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 |

### 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 @I <sub>PP</sub> VC (V) | PEAK PULSE CURRENT I <sub>PP</sub> (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| 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 |
| 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 |

### 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) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| 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                             |