

# P4KE SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 6.8 TO 440 Volts

400 Watt Peak Power

1.0 Watt Steady State

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in DO-41 package
- 400W 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: 300  $\text{C}$ /10 seconds/.375", (9.5mm) lead length/5lbs., (2.3kg) tension

### DO-41



Dimensions in inches and (millimeters)

### MECHANICAL DATA

Case: JEDEC DO-41 molded plastic

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

Polarity: Color band denoted cathode except Bipolar

Mounting Position: Any

Weight: 0.012 ounce, 0.34 gram

### 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  $\text{C}$  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 $T_A=25\text{C}$ , $T_P=1\text{ms}$ (Note 1)                                    | $P_{PK}$       | Minimum 400 | Watts      |
| Steady State Power Dissipation at $T_L=75\text{C}$ Lead Lengths .375", (9.5mm) (Note 2)                   | PD             | 1.0         | Watts      |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3) | $I_{FSM}$      | 40.0        | Amps       |
| Operating and Storage Temperature Range   | $T_J, T_{STG}$ | -65 to +175 | $\text{C}$ |

### NOTES:

- 1.Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25\text{C}$  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 P4KE SERIES



Fig. 1-PEAK PULSE POWER RATING VERSUS PULSE TIME CURVE



Fig. 2-PULSE DERATING CURVE



Fig. 3-PULSE WAVEFORM

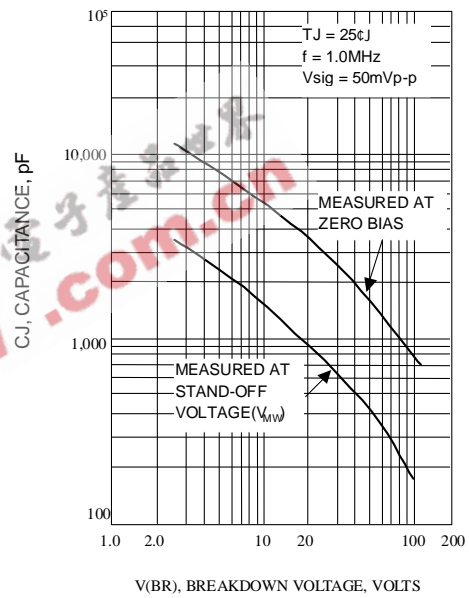


Fig. 4-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

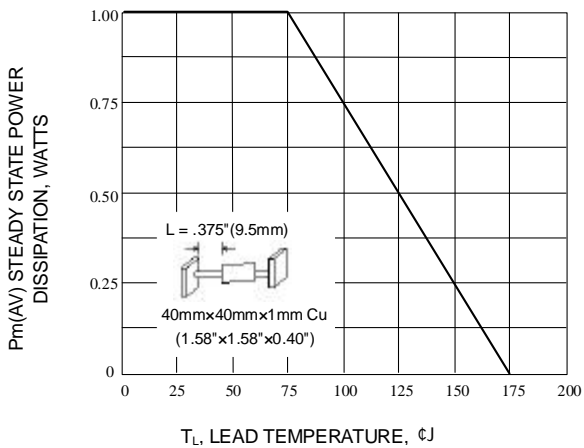


Fig. 5-STeady State Power Derating Curve

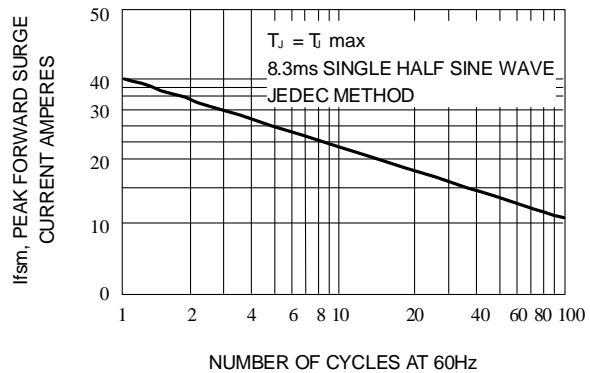


Fig. 6-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

**UNI-DIRECTIONAL 400 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P4KE6.8                     | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8   | 38.0                                   | 1000                          |
| P4KE6.8A                    | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5   | 40.0                                   | 1000                          |
| P4KE7.5                     | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7   | 36.0                                   | 500                           |
| P4KE7.5A                    | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3   | 37.0                                   | 500                           |
| P4KE8.2                     | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5   | 33.0                                   | 200                           |
| P4KE8.2A                    | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1   | 35.0                                   | 200                           |
| P4KE9.1                     | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8   | 30.0                                   | 50                            |
| P4KE9.1A                    | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4   | 31.0                                   | 50                            |
| P4KE10                      | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0   | 28.0                                   | 10                            |
| P4KE10A                     | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5   | 29.0                                   | 10                            |
| P4KE11                      | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2   | 26.0                                   | 5                             |
| P4KE11A                     | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6   | 27.0                                   | 5                             |
| P4KE12                      | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3   | 24.0                                   | 5                             |
| P4KE12A                     | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7   | 25.0                                   | 5                             |
| P4KE13                      | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0   | 22.0                                   | 5                             |
| P4KE13A                     | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2   | 23.0                                   | 5                             |
| P4KE15                      | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0   | 19.0                                   | 5                             |
| P4KE15A                     | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2   | 20.0                                   | 5                             |
| P4KE16                      | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5   | 18.0                                   | 5                             |
| P4KE16A                     | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5   | 19.0                                   | 5                             |
| P4KE18                      | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5   | 16.0                                   | 5                             |
| P4KE18A                     | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2   | 17.0                                   | 5                             |
| P4KE20                      | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1   | 14.0                                   | 5                             |
| P4KE20A                     | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7   | 15.0                                   | 5                             |
| P4KE22                      | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9   | 13.0                                   | 5                             |
| P4KE22A                     | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6   | 14.0                                   | 5                             |
| P4KE24                      | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7   | 12.0                                   | 5                             |
| P4KE24A                     | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2   | 13.0                                   | 5                             |
| P4KE27                      | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1   | 11.0                                   | 5                             |
| P4KE27A                     | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5   | 11.2                                   | 5                             |
| P4KE30                      | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5   | 10.0                                   | 5                             |
| P4KE30A                     | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4   | 10.0                                   | 5                             |
| P4KE33                      | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7   | 9.0                                    | 5                             |
| P4KE33A                     | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7   | 9.0                                    | 5                             |
| P4KE36                      | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0   | 8.0                                    | 5                             |
| P4KE36A                     | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9   | 8.4                                    | 5                             |
| P4KE39                      | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4   | 7.4                                    | 5                             |
| P4KE39A                     | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9   | 7.8                                    | 5                             |
| P4KE43                      | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9   | 6.8                                    | 5                             |
| P4KE43A                     | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3   | 7.1                                    | 5                             |
| P4KE47                      | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8   | 6.2                                    | 5                             |
| P4KE47A                     | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8   | 5.0                                    | 5                             |
| P4KE51                      | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5   | 5.7                                    | 5                             |
| P4KE51A                     | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1   | 6.0                                    | 5                             |
| P4KE56                      | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5   | 5.2                                    | 5                             |
| P4KE56A                     | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0   | 5.5                                    | 5                             |
| P4KE62                      | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0   | 4.7                                    | 5                             |
| P4KE62A                     | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0   | 5.0                                    | 5                             |
| P4KE68                      | 55.10                              | 61.20                              | 74.80                              | 1                    | 98.0   | 4.3                                    | 5                             |
| P4KE68A                     | 58.10                              | 64.60                              | 71.40                              | 1                    | 92.0   | 4.6                                    | 5                             |
| P4KE75                      | 60.70                              | 67.50                              | 82.50                              | 1                    | 108.0  | 3.9                                    | 5                             |
| P4KE75A                     | 64.10                              | 71.30                              | 78.80                              | 1                    | 103.0  | 4.1                                    | 5                             |
| P4KE82                      | 66.40                              | 73.80                              | 90.20                              | 1                    | 118.0  | 3.6                                    | 5                             |
| P4KE82A                     | 70.10                              | 77.90                              | 86.10                              | 1                    | 113.0  | 3.7                                    | 5                             |
| P4KE91                      | 73.70                              | 81.90                              | 100.00                             | 1                    | 131.0  | 3.2                                    | 5                             |
| P4KE91A                     | 77.80                              | 86.50                              | 95.50                              | 1                    | 125.0  | 3.4                                    | 5                             |
| P4KE100                     | 81.00                              | 90.00                              | 110.00                             | 1                    | 144.0  | 2.9                                    | 5                             |
| P4KE100A                    | 85.50                              | 95.00                              | 105.00                             | 1                    | 137.0  | 3.1                                    | 5                             |
| P4KE110                     | 89.20                              | 99.00                              | 121.00                             | 1                    | 158.0  | 2.7                                    | 5                             |
| P4KE110A                    | 94.00                              | 105.00                             | 116.00                             | 1                    | 152.0  | 2.8                                    | 5                             |
| P4KE120                     | 97.20                              | 108.00                             | 132.00                             | 1                    | 173.0  | 2.4                                    | 5                             |
| P4KE120A                    | 102.00                             | 114.00                             | 126.00                             | 1                    | 165.0  | 2.5                                    | 5                             |
| P4KE130                     | 105.00                             | 117.00                             | 143.00                             | 1                    | 187.0  | 2.2                                    | 5                             |
| P4KE130A                    | 111.00                             | 124.00                             | 137.00                             | 1                    | 179.0  | 2.3                                    | 5                             |

### UNI-DIRECTIONAL 400 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P4KE150                     | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0  | 2.0                                    | 5                             |
| P4KE150A                    | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0  | 2.0                                    | 5                             |
| P4KE160                     | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0  | 1.8                                    | 5                             |
| P4KE160A                    | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0  | 1.9                                    | 5                             |
| P4KE170                     | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0  | 1.7                                    | 5                             |
| P4KE170A                    | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0  | 1.8                                    | 5                             |
| P4KE180                     | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0  | 1.6                                    | 5                             |
| P4KE180A                    | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0  | 1.7                                    | 5                             |
| P4KE200                     | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0  | 1.5                                    | 5                             |
| P4KE200A                    | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0  | 1.53                                   | 5                             |
| P4KE220                     | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0  | 1.16                                   | 5                             |
| P4KE220A                    | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0  | 1.22                                   | 5                             |
| P4KE250                     | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0  | 1.1                                    | 5                             |
| P4KE250A                    | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0  | 1.16                                   | 5                             |
| P4KE300                     | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0  | 0.93                                   | 5                             |
| P4KE300A                    | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0  | 0.97                                   | 5                             |
| P4KE350                     | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0  | 0.79                                   | 5                             |
| P4KE350A                    | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0  | 0.83                                   | 5                             |
| P4KE400                     | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0  | 0.70                                   | 5                             |
| P4KE400A                    | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0  | 0.73                                   | 5                             |
| P4KE440                     | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0  | 0.66                                   | 5                             |
| P4KE440A                    | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0  | 0.69                                   | 5                             |

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## BI-DIRECTIONAL 400 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) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P4KE6.8C                   | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8   | 38.0                                   | 2000                          |
| P4KE6.8CA                  | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5   | 40.0                                   | 2000                          |
| P4KE7.5C                   | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7   | 36.0                                   | 1000                          |
| P4KE7.5CA                  | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3   | 37.0                                   | 1000                          |
| P4KE8.2C                   | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5   | 33.0                                   | 400                           |
| P4KE8.2CA                  | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1   | 35.0                                   | 400                           |
| P4KE9.1C                   | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8   | 30.0                                   | 100                           |
| P4KE9.1CA                  | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4   | 31.0                                   | 100                           |
| P4KE10C                    | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0   | 28.0                                   | 20                            |
| P4KE10CA                   | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5   | 29.0                                   | 20                            |
| P4KE11C                    | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2   | 26.0                                   | 10                            |
| P4KE11CA                   | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6   | 27.0                                   | 10                            |
| P4KE12C                    | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3   | 24.0                                   | 5                             |
| P4KE12CA                   | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7   | 25.0                                   | 5                             |
| P4KE13C                    | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0   | 22.0                                   | 5                             |
| P4KE13CA                   | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2   | 23.0                                   | 5                             |
| P4KE15C                    | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0   | 19.0                                   | 5                             |
| P4KE15CA                   | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2   | 20.0                                   | 5                             |
| P4KE16C                    | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5   | 18.0                                   | 5                             |
| P4KE16CA                   | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5   | 19.0                                   | 5                             |
| P4KE18C                    | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5   | 16.0                                   | 5                             |
| P4KE18CA                   | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2   | 17.0                                   | 5                             |
| P4KE20C                    | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1   | 14.0                                   | 5                             |
| P4KE20CA                   | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7   | 15.0                                   | 5                             |
| P4KE22C                    | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9   | 13.0                                   | 5                             |
| P4KE22CA                   | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6   | 14.0                                   | 5                             |
| P4KE24C                    | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7   | 12.0                                   | 5                             |
| P4KE24CA                   | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2   | 13.0                                   | 5                             |
| P4KE27C                    | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1   | 11.0                                   | 5                             |
| P4KE27CA                   | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5   | 11.2                                   | 5                             |
| P4KE30C                    | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5   | 10.0                                   | 5                             |
| P4KE30CA                   | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4   | 10.0                                   | 5                             |
| P4KE33C                    | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7   | 9.0                                    | 5                             |
| P4KE33CA                   | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7   | 9.0                                    | 5                             |
| P4KE36C                    | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0   | 8.0                                    | 5                             |
| P4KE36CA                   | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9   | 8.4                                    | 5                             |
| P4KE39C                    | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4   | 7.4                                    | 5                             |
| P4KE39CA                   | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9   | 7.8                                    | 5                             |
| P4KE43C                    | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9   | 6.8                                    | 5                             |
| P4KE43CA                   | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3   | 7.1                                    | 5                             |
| P4KE47C                    | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8   | 6.2                                    | 5                             |
| P4KE47CA                   | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8   | 5.0                                    | 5                             |
| P4KE51C                    | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5   | 5.7                                    | 5                             |
| P4KE51CA                   | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1   | 6.0                                    | 5                             |
| P4KE56C                    | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5   | 5.2                                    | 5                             |
| P4KE56CA                   | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0   | 5.5                                    | 5                             |
| P4KE62C                    | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0   | 4.7                                    | 5                             |
| P4KE62CA                   | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0   | 5.0                                    | 5                             |
| P4KE68C                    | 55.10                              | 61.20                              | 74.80                              | 1                    | 98.0   | 4.3                                    | 5                             |
| P4KE68CA                   | 58.10                              | 64.60                              | 71.40                              | 1                    | 92.0   | 4.6                                    | 5                             |
| P4KE75C                    | 60.70                              | 67.50                              | 82.50                              | 1                    | 108.0  | 3.9                                    | 5                             |
| P4KE75CA                   | 64.10                              | 71.30                              | 78.80                              | 1                    | 103.0  | 4.1                                    | 5                             |
| P4KE82C                    | 66.40                              | 73.80                              | 90.20                              | 1                    | 118.0  | 3.6                                    | 5                             |
| P4KE82CA                   | 70.10                              | 77.90                              | 86.10                              | 1                    | 113.0  | 3.7                                    | 5                             |
| P4KE91C                    | 73.70                              | 81.90                              | 100.00                             | 1                    | 131.0  | 3.2                                    | 5                             |
| P4KE91CA                   | 77.80                              | 86.50                              | 95.50                              | 1                    | 125.0  | 3.4                                    | 5                             |
| P4KE100C                   | 81.00                              | 90.00                              | 110.00                             | 1                    | 144.0  | 2.9                                    | 5                             |
| P4KE100CA                  | 85.50                              | 95.00                              | 105.00                             | 1                    | 137.0  | 3.1                                    | 5                             |
| P4KE110C                   | 89.20                              | 99.00                              | 121.00                             | 1                    | 158.0  | 2.7                                    | 5                             |
| P4KE110CA                  | 94.00                              | 105.00                             | 116.00                             | 1                    | 152.0  | 2.8                                    | 5                             |
| P4KE120C                   | 97.20                              | 108.00                             | 132.00                             | 1                    | 173.0  | 2.4                                    | 5                             |
| P4KE120CA                  | 102.00                             | 114.00                             | 126.00                             | 1                    | 165.0  | 2.5                                    | 5                             |
| P4KE130C                   | 105.00                             | 117.00                             | 143.00                             | 1                    | 187.0  | 2.2                                    | 5                             |
| P4KE130CA                  | 111.00                             | 124.00                             | 137.00                             | 1                    | 179.0  | 2.3                                    | 5                             |

## BI-DIRECTIONAL 400 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) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--|--|-------------------------------|
| P4KE150C                   | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0  | 2.0                                    | 5                             |
| P4KE150CA                  | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0  | 2.0                                    | 5                             |
| P4KE160C                   | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0  | 1.8                                    | 5                             |
| P4KE160CA                  | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0  | 1.9                                    | 5                             |
| P4KE170C                   | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0  | 1.7                                    | 5                             |
| P4KE170CA                  | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0  | 1.8                                    | 5                             |
| P4KE180C                   | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0  | 1.6                                    | 5                             |
| P4KE180CA                  | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0  | 1.7                                    | 5                             |
| P4KE200C                   | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0  | 1.5                                    | 5                             |
| P4KE200CA                  | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0  | 1.53                                   | 5                             |
| P4KE220C                   | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0  | 1.16                                   | 5                             |
| P4KE220CA                  | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0  | 1.22                                   | 5                             |
| P4KE250C                   | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0  | 1.11                                   | 5                             |
| P4KE250CA                  | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0  | 1.16                                   | 5                             |
| P4KE300C                   | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0  | 0.93                                   | 5                             |
| P4KE300CA                  | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0  | 0.97                                   | 5                             |
| P4KE350C                   | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0  | 0.79                                   | 5                             |
| P4KE350CA                  | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0  | 0.83                                   | 5                             |
| P4KE400C                   | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0  | 0.70                                   | 5                             |
| P4KE400CA                  | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0  | 0.73                                   | 5                             |
| P4KE440C                   | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0  | 0.66                                   | 5                             |
| P4KE440CA                  | 376.00                             | 418.00                             | 462.00                             | 1                    | 600.0  | 0.69                                   | 5                             |


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