

## P6KE SERIES

**GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR**  
**VOLTAGE – 6.8 to 440 Volts**  
**600 Watt Peak Power    5.0 Watt Steady State**

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction in DO-15 package
- 600W surge capability at 1 ms
- 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°C/10 seconds/.375", (9.5mm) lead length/5lbs., (2.3 kg) tension

### 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

DO-15



Dimensions in inches and (millimeters)

### 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, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

| RATING   | SYMBOL         | VALUE       | UNITS |
|--|----------------|-------------|-------|
| Peak Power Dissipation at $T_A = 25^\circ C$ , $T_P = 1ms$ (NOTE 1)  | $P_{PK}$       | Minimum 600 | Watts |
| Steady State Power Dissipation at $T_L = 75^\circ C$<br>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 (JEDEC Method) (NOTE 3) | $I_{FSM}$      | 100         | Amps  |
| Operating and Storage Temperature Range  | $T_J, T_{Stg}$ | -65 to +175 | °C    |

#### NOTES:

1. Non-repetitive current pulse, per Fig. 3 and derated above  $T_A = 25^\circ C$  per Fig. 2.
2. Mounted on Copper Leaf area of 1.57 in<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



FIGURE 2-PULSE DERATING CURVE



FIGURE 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 (V) MIN. @ IT | BREAKDOWN VOLTAGE (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                                  | 58.0                       | 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                       | 5                              |
| 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                                  | 25.0                       | 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                           | 28.10                           | 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                      | 34.50                              | 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                     | 43.80                              | 48.50                           | 53.60                           | 1                    | 70.1                                  | 8.6                        | 5                              |
| P6KE56                      | 45.60                              | 50.40                           | 61.60                           | 1                    | 80.5                                  | 7.4                        | 5                              |
| P6KE56A                     | 47.60                              | 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                    | 138.00                             | 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                     | 148.00                             | 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 @ Ipp Vc (V) | PEAK PULSE CURRENT Ipp (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                                  | 25.0                       | 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                                  | 12.8                       | 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                              | 36.10                               | 42.80                               | 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                             |
| 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                             |