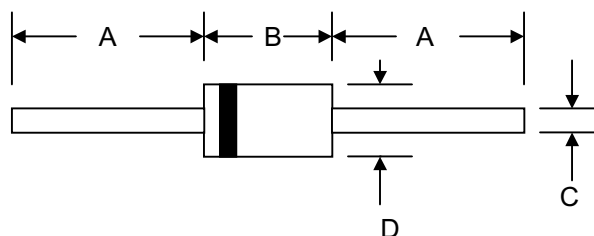


**Features**

- Glass Passivated Die Construction
- 400W Peak Pulse Power Dissipation
- 6.8V – 440V Standoff Voltage
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- UL Recognized File # E224235
- Green Products in Compliance with the RoHS Directive


**Mechanical Data**

- Case: JEDEC DO-41 Low Profile Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking:  
Unidirectional – Device Code and Cathode Band  
Bidirectional – Device Code Only
- Weight: 0.34 grams (approx.)

| DO-41 |      |       |       |         |
|-------|------|-------|-------|---------|
| Dim   | Min  | Max   | Min   | Max     |
| A     | 25.4 | —     | 1.000 | —       |
| B     | 4.06 | 5.21  | 0.159 | 0.205   |
| C     | 0.71 | 0.864 | 0.028 | 0.034   |
| D     | 2.00 | 2.72  | 0.079 | 0.107   |
|       |      | In mm |       | In inch |

“C” Suffix Designates Bi-directional Devices

“A” Suffix Designates 5% Tolerance Devices

No Suffix Designates 10% Tolerance Devices

**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified**

| Characteristic                                                                | Symbol                            | Value       | Unit |
|-------------------------------------------------------------------------------|-----------------------------------|-------------|------|
| Peak Pulse Power Dissipation at T <sub>A</sub> = 25°C (Note 1, 2, 5) Figure 1 | PPPM                              | 400 Minimum | W    |
| Peak Forward Surge Current per Figure 6 (Note 3)                              | I <sub>FSM</sub>                  | 40          | A    |
| Peak Pulse Current on 10/1000μS Waveform (Note 1) Figure 3                    | I <sub>PPM</sub>                  | See Table 1 | A    |
| Steady State Power Dissipation (Note 2, 4)                                    | P <sub>M(AV)</sub>                | 1.0         | W    |
| Operating and Storage Temperature Range                                       | T <sub>J</sub> , T <sub>STG</sub> | -65 to +175 | °C   |

Note: 1. Non-repetitive current pulse, per Figure 3 and derated above T<sub>A</sub> = 25°C per Figure 2

2. Mounted on 40mm<sup>2</sup> copper pad

3. 8.3ms single half sine-wave duty cycle = 4 pulses per minutes maximum

4. Lead temperature at 75°C = T<sub>L</sub>

5. Peak pulse power waveform is 10/1000μS

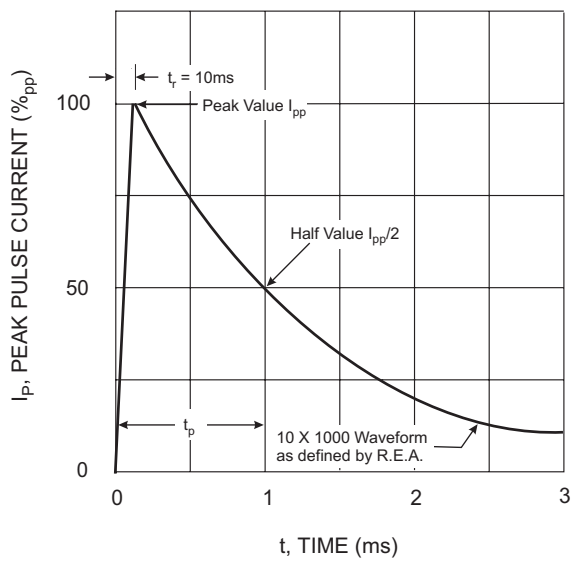


Fig. 1 Pulse Waveform

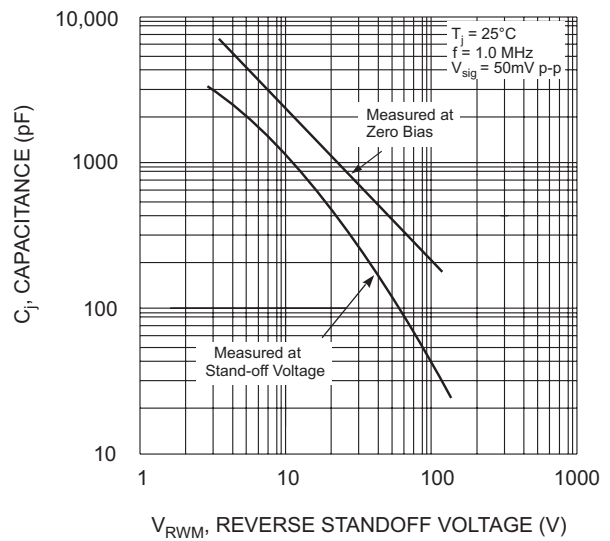


Fig. 2 Typical Junction Capacitance

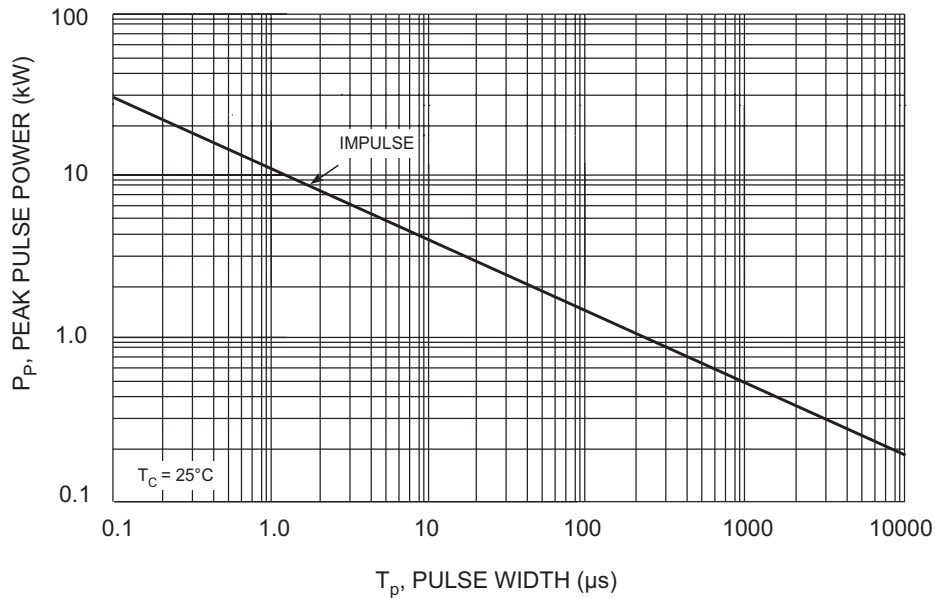


Fig. 3 Pulse Rating Curve

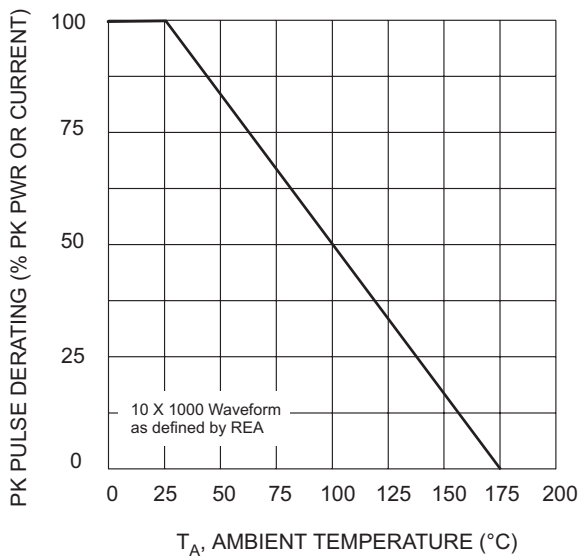


Fig. 4 Pulse Derating Curve

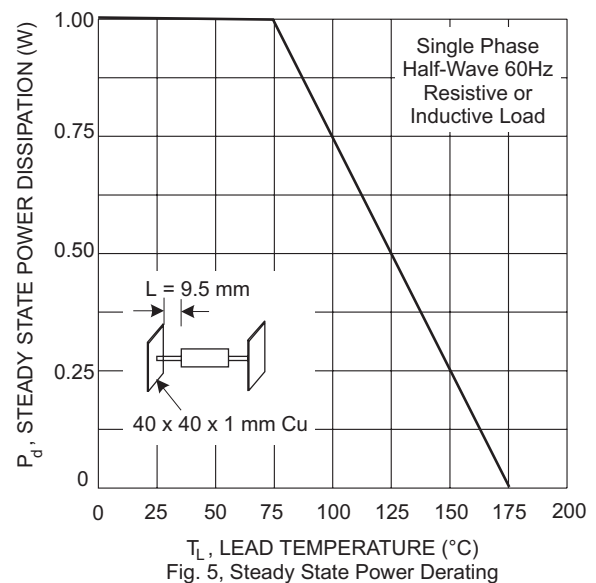


Fig. 5, Steady State Power Derating

# UNI-DIRECTIONAL 400 WATT AXIAL LEAD TVS

| UNI-DIRECTIONAL<br>PART NUMBER | REVERSE<br>STAND-OFF<br>VOLTAGE VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V) MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V) MAX. @IT | TEST<br>CURRENT<br>IT (mA) | MAXIMUM CLAMPING<br>VOLTAGE @Ipp Vc (V) | PEAK PULSE<br>CURRENT<br>Ipp (A) | REVERSE<br>LEAKAGE<br>@VRWM IR (uA) |
|--------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------|-----------------------------------------|----------------------------------|-------------------------------------|
| P4KE6.8-G                      | 5.50                                     | 6.12                                     | 7.48                                     | 10                         | 10.8                                    | 38.00                            | 1000                                |
| P4KE6.8A-G                     | 5.80                                     | 6.45                                     | 7.14                                     | 10                         | 10.5                                    | 40.00                            | 1000                                |
| P4KE7.5-G                      | 6.05                                     | 6.75                                     | 8.25                                     | 10                         | 11.7                                    | 36.00                            | 500                                 |
| P4KE7.5A-G                     | 6.40                                     | 7.13                                     | 7.88                                     | 10                         | 11.3                                    | 37.00                            | 500                                 |
| P4KE8.2-G                      | 6.63                                     | 7.38                                     | 9.02                                     | 10                         | 12.5                                    | 33.00                            | 200                                 |
| P4KE8.2A-G                     | 7.02                                     | 7.79                                     | 8.61                                     | 10                         | 12.1                                    | 35.00                            | 200                                 |
| P4KE9.1-G                      | 7.37                                     | 8.19                                     | 10.00                                    | 1                          | 13.8                                    | 30.00                            | 50                                  |
| P4KE9.1A-G                     | 7.78                                     | 8.65                                     | 9.50                                     | 1                          | 13.4                                    | 31.00                            | 50                                  |
| P4KE10-G                       | 8.10                                     | 9.00                                     | 11.00                                    | 1                          | 15.0                                    | 28.00                            | 10                                  |
| P4KE10A-G                      | 8.55                                     | 9.50                                     | 10.50                                    | 1                          | 14.5                                    | 29.00                            | 10                                  |
| P4KE11-G                       | 8.92                                     | 9.90                                     | 12.10                                    | 1                          | 16.2                                    | 26.00                            | 5                                   |
| P4KE11A-G                      | 9.40                                     | 10.50                                    | 11.60                                    | 1                          | 15.6                                    | 27.00                            | 5                                   |
| P4KE12-G                       | 9.72                                     | 10.80                                    | 13.20                                    | 1                          | 17.3                                    | 24.00                            | 5                                   |
| P4KE12A-G                      | 10.20                                    | 11.40                                    | 12.60                                    | 1                          | 16.7                                    | 25.00                            | 5                                   |
| P4KE13-G                       | 10.50                                    | 11.70                                    | 14.30                                    | 1                          | 19.0                                    | 22.00                            | 5                                   |
| P4KE13A-G                      | 11.10                                    | 12.40                                    | 13.70                                    | 1                          | 18.2                                    | 23.00                            | 5                                   |
| P4KE15-G                       | 12.10                                    | 13.50                                    | 16.50                                    | 1                          | 22.0                                    | 19.00                            | 5                                   |
| P4KE15A-G                      | 12.80                                    | 14.30                                    | 15.80                                    | 1                          | 21.2                                    | 20.00                            | 5                                   |
| P4KE16-G                       | 12.90                                    | 14.40                                    | 17.60                                    | 1                          | 23.5                                    | 18.00                            | 5                                   |
| P4KE16A-G                      | 13.60                                    | 15.20                                    | 16.80                                    | 1                          | 22.5                                    | 19.00                            | 5                                   |
| P4KE18-G                       | 14.50                                    | 16.20                                    | 19.80                                    | 1                          | 26.5                                    | 16.00                            | 5                                   |
| P4KE18A-G                      | 15.30                                    | 17.10                                    | 18.90                                    | 1                          | 25.2                                    | 17.00                            | 5                                   |
| P4KE20-G                       | 16.20                                    | 18.00                                    | 22.00                                    | 1                          | 29.1                                    | 14.00                            | 5                                   |
| P4KE20A-G                      | 17.10                                    | 19.00                                    | 21.00                                    | 1                          | 27.7                                    | 15.00                            | 5                                   |
| P4KE22-G                       | 17.80                                    | 19.80                                    | 24.20                                    | 1                          | 31.9                                    | 13.00                            | 5                                   |
| P4KE22A-G                      | 18.80                                    | 20.90                                    | 23.10                                    | 1                          | 30.6                                    | 14.00                            | 5                                   |
| P4KE24-G                       | 19.40                                    | 21.60                                    | 26.40                                    | 1                          | 34.7                                    | 12.00                            | 5                                   |
| P4KE24A-G                      | 20.50                                    | 22.80                                    | 25.20                                    | 1                          | 33.2                                    | 13.00                            | 5                                   |
| P4KE27-G                       | 21.80                                    | 24.30                                    | 29.70                                    | 1                          | 39.1                                    | 11.00                            | 5                                   |
| P4KE27A-G                      | 23.10                                    | 25.70                                    | 28.40                                    | 1                          | 37.5                                    | 11.20                            | 5                                   |
| P4KE30-G                       | 24.30                                    | 27.00                                    | 33.00                                    | 1                          | 43.5                                    | 10.00                            | 5                                   |
| P4KE30A-G                      | 25.60                                    | 28.50                                    | 31.50                                    | 1                          | 41.4                                    | 10.00                            | 5                                   |
| P4KE33-G                       | 26.80                                    | 29.70                                    | 36.30                                    | 1                          | 47.7                                    | 9.00                             | 5                                   |
| P4KE33A-G                      | 28.20                                    | 31.40                                    | 34.70                                    | 1                          | 45.7                                    | 9.00                             | 5                                   |
| P4KE36-G                       | 29.10                                    | 32.40                                    | 39.60                                    | 1                          | 52.0                                    | 8.00                             | 5                                   |
| P4KE36A-G                      | 30.80                                    | 34.20                                    | 37.80                                    | 1                          | 49.9                                    | 8.40                             | 5                                   |
| P4KE39-G                       | 31.60                                    | 35.10                                    | 42.90                                    | 1                          | 56.4                                    | 7.40                             | 5                                   |
| P4KE39A-G                      | 33.30                                    | 37.10                                    | 41.00                                    | 1                          | 53.9                                    | 7.80                             | 5                                   |
| P4KE43-G                       | 34.80                                    | 38.70                                    | 47.30                                    | 1                          | 61.9                                    | 6.80                             | 5                                   |
| P4KE43A-G                      | 36.80                                    | 40.90                                    | 45.20                                    | 1                          | 59.3                                    | 7.10                             | 5                                   |
| P4KE47-G                       | 38.10                                    | 42.30                                    | 51.70                                    | 1                          | 67.8                                    | 6.20                             | 5                                   |
| P4KE47A-G                      | 40.20                                    | 44.70                                    | 49.40                                    | 1                          | 64.8                                    | 5.00                             | 5                                   |
| P4KE51-G                       | 41.30                                    | 45.90                                    | 56.10                                    | 1                          | 73.5                                    | 5.70                             | 5                                   |
| P4KE51A-G                      | 43.60                                    | 48.50                                    | 53.60                                    | 1                          | 70.1                                    | 6.00                             | 5                                   |
| P4KE56-G                       | 45.60                                    | 50.40                                    | 61.60                                    | 1                          | 80.5                                    | 5.20                             | 5                                   |
| P4KE56A-G                      | 47.80                                    | 53.20                                    | 58.80                                    | 1                          | 77.0                                    | 5.50                             | 5                                   |
| P4KE62-G                       | 50.20                                    | 55.80                                    | 68.20                                    | 1                          | 89.0                                    | 4.70                             | 5                                   |
| P4KE62A-G                      | 53.00                                    | 58.90                                    | 65.10                                    | 1                          | 85.0                                    | 5.00                             | 5                                   |
| P4KE68-G                       | 55.10                                    | 61.20                                    | 74.80                                    | 1                          | 98.0                                    | 4.30                             | 5                                   |
| P4KE68A-G                      | 58.10                                    | 64.60                                    | 71.40                                    | 1                          | 92.0                                    | 4.60                             | 5                                   |
| P4KE75-G                       | 60.70                                    | 67.50                                    | 82.50                                    | 1                          | 108.0                                   | 3.90                             | 5                                   |
| P4KE75A-G                      | 64.10                                    | 71.30                                    | 78.80                                    | 1                          | 103.0                                   | 4.10                             | 5                                   |
| P4KE82-G                       | 66.40                                    | 73.80                                    | 90.20                                    | 1                          | 118.0                                   | 3.60                             | 5                                   |
| P4KE82A-G                      | 70.10                                    | 77.90                                    | 86.10                                    | 1                          | 113.0                                   | 3.70                             | 5                                   |
| P4KE91-G                       | 73.70                                    | 81.90                                    | 100.00                                   | 1                          | 131.0                                   | 3.20                             | 5                                   |
| P4KE91A-G                      | 77.80                                    | 86.50                                    | 95.50                                    | 1                          | 125.0                                   | 3.40                             | 5                                   |
| P4KE100-G                      | 81.00                                    | 90.00                                    | 110.00                                   | 1                          | 144.0                                   | 2.90                             | 5                                   |
| P4KE100A-G                     | 85.50                                    | 95.00                                    | 105.00                                   | 1                          | 137.0                                   | 3.10                             | 5                                   |
| P4KE110-G                      | 89.20                                    | 99.00                                    | 121.00                                   | 1                          | 158.0                                   | 2.70                             | 5                                   |
| P4KE110A-G                     | 94.00                                    | 105.00                                   | 116.00                                   | 1                          | 152.0                                   | 2.80                             | 5                                   |
| P4KE120-G                      | 97.20                                    | 108.00                                   | 132.00                                   | 1                          | 173.0                                   | 2.40                             | 5                                   |
| P4KE120A-G                     | 102.00                                   | 114.00                                   | 126.00                                   | 1                          | 165.0                                   | 2.50                             | 5                                   |
| P4KE130-G                      | 105.00                                   | 117.00                                   | 143.00                                   | 1                          | 187.0                                   | 2.20                             | 5                                   |
| P4KE130A-G                     | 111.00                                   | 124.00                                   | 137.00                                   | 1                          | 179.0                                   | 2.30                             | 5                                   |
| P4KE150-G                      | 121.00                                   | 135.00                                   | 165.00                                   | 1                          | 215.0                                   | 2.00                             | 5                                   |
| P4KE150A-G                     | 128.00                                   | 143.00                                   | 158.00                                   | 1                          | 207.0                                   | 2.00                             | 5                                   |
| P4KE160-G                      | 130.00                                   | 144.00                                   | 176.00                                   | 1                          | 230.0                                   | 1.80                             | 5                                   |
| P4KE160A-G                     | 136.00                                   | 152.00                                   | 168.00                                   | 1                          | 219.0                                   | 1.90                             | 5                                   |
| P4KE170-G                      | 138.00                                   | 153.00                                   | 187.00                                   | 1                          | 244.0                                   | 1.70                             | 5                                   |
| P4KE170A-G                     | 145.00                                   | 162.00                                   | 179.00                                   | 1                          | 234.0                                   | 1.80                             | 5                                   |
| P4KE180-G                      | 146.00                                   | 162.00                                   | 198.00                                   | 1                          | 258.0                                   | 1.60                             | 5                                   |
| P4KE180A-G                     | 154.00                                   | 171.00                                   | 189.00                                   | 1                          | 246.0                                   | 1.70                             | 5                                   |
| P4KE200-G                      | 162.00                                   | 180.00                                   | 220.00                                   | 1                          | 287.0                                   | 1.50                             | 5                                   |
| P4KE200A-G                     | 171.00                                   | 190.00                                   | 210.00                                   | 1                          | 274.0                                   | 1.50                             | 5                                   |
| P4KE220-G                      | 175.00                                   | 198.00                                   | 242.00                                   | 1                          | 344.0                                   | 1.20                             | 5                                   |
| P4KE220A-G                     | 185.00                                   | 209.00                                   | 231.00                                   | 1                          | 328.0                                   | 1.20                             | 5                                   |
| P4KE250-G                      | 202.00                                   | 225.00                                   | 275.00                                   | 1                          | 360.0                                   | 1.10                             | 5                                   |
| P4KE250A-G                     | 214.00                                   | 237.00                                   | 263.00                                   | 1                          | 344.0                                   | 1.20                             | 5                                   |
| P4KE300-G                      | 243.00                                   | 270.00                                   | 330.00                                   | 1                          | 430.0                                   | 0.90                             | 5                                   |
| P4KE300A-G                     | 256.00                                   | 285.00                                   | 315.00                                   | 1                          | 414.0                                   | 1.00                             | 5                                   |
| P4KE350-G                      | 284.00                                   | 315.00                                   | 385.00                                   | 1                          | 504.0                                   | 0.80                             | 5                                   |
| P4KE350A-G                     | 300.00                                   | 332.00                                   | 368.00                                   | 1                          | 482.0                                   | 0.80                             | 5                                   |
| P4KE400-G                      | 324.00                                   | 360.00                                   | 440.00                                   | 1                          | 574.0                                   | 0.70                             | 5                                   |
| P4KE400A-G                     | 342.00                                   | 380.00                                   | 420.00                                   | 1                          | 548.0                                   | 0.70                             | 5                                   |
| P4KE440-G                      | 356.00                                   | 396.00                                   | 484.00                                   | 1                          | 631.0                                   | 1.00                             | 5                                   |
| P4KE440A-G                     | 376.00                                   | 418.00                                   | 462.00                                   | 1                          | 600.0                                   | 1.00                             | 5                                   |

# BI-DIRECTIONAL 400 WATT AXIAL LEAD TVS

| BI-DIRECTIONAL<br>PART NUMBER | REVERSE<br>STAND-OFF<br>VOLTAGE VRWM (V) | BREAKDOWN<br>VOLTAGE<br>VBR (V) MIN. @IT | BREAKDOWN<br>VOLTAGE<br>VBR (V) MAX. @IT | TEST<br>CURRENT<br>IT (mA) | MAXIMUM CLAMPING<br>VOLTAGE @Ipp Vc (V) | PEAK PULSE<br>CURRENT<br>Ipp (A) | REVERSE<br>LEAKAGE<br>@VRWM IR (uA) |
|-------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------|-----------------------------------------|----------------------------------|-------------------------------------|
| P4KE6.8C-G                    | 5.50                                     | 6.12                                     | 7.48                                     | 10                         | 10.8                                    | 38.00                            | 2000                                |
| P4KE6.8CA-G                   | 5.80                                     | 6.45                                     | 7.14                                     | 10                         | 10.5                                    | 40.00                            | 2000                                |
| P4KE7.5C-G                    | 6.05                                     | 6.75                                     | 8.25                                     | 10                         | 11.7                                    | 36.00                            | 1000                                |
| P4KE7.5CA-G                   | 6.40                                     | 7.13                                     | 7.88                                     | 10                         | 11.3                                    | 37.00                            | 1000                                |
| P4KE8.2C-G                    | 6.63                                     | 7.38                                     | 9.02                                     | 10                         | 12.5                                    | 33.00                            | 400                                 |
| P4KE8.2CA-G                   | 7.02                                     | 7.79                                     | 8.61                                     | 10                         | 12.1                                    | 35.00                            | 400                                 |
| P4KE9.1C-G                    | 7.37                                     | 8.19                                     | 10.00                                    | 1                          | 13.8                                    | 30.00                            | 10                                  |
| P4KE9.1CA-G                   | 7.78                                     | 8.65                                     | 9.50                                     | 1                          | 13.4                                    | 31.00                            | 10                                  |
| P4KE10C-G                     | 8.10                                     | 9.00                                     | 11.00                                    | 1                          | 15.0                                    | 28.00                            | 20                                  |
| P4KE10CA-G                    | 8.55                                     | 9.50                                     | 10.50                                    | 1                          | 14.5                                    | 29.00                            | 20                                  |
| P4KE11C-G                     | 8.92                                     | 9.90                                     | 12.10                                    | 1                          | 16.2                                    | 26.00                            | 10                                  |
| P4KE11CA-G                    | 9.40                                     | 10.50                                    | 11.60                                    | 1                          | 15.6                                    | 27.00                            | 10                                  |
| P4KE12C-G                     | 9.72                                     | 10.80                                    | 13.20                                    | 1                          | 17.3                                    | 24.00                            | 5                                   |
| P4KE12CA-G                    | 10.20                                    | 11.40                                    | 12.60                                    | 1                          | 16.7                                    | 25.00                            | 5                                   |
| P4KE13C-G                     | 10.50                                    | 11.70                                    | 14.30                                    | 1                          | 19.0                                    | 22.00                            | 5                                   |
| P4KE13CA-G                    | 11.10                                    | 12.40                                    | 13.70                                    | 1                          | 18.2                                    | 23.00                            | 5                                   |
| P4KE15C-G                     | 12.10                                    | 13.50                                    | 16.50                                    | 1                          | 22.0                                    | 19.00                            | 5                                   |
| P4KE15CA-G                    | 12.80                                    | 14.30                                    | 15.80                                    | 1                          | 21.2                                    | 20.00                            | 5                                   |
| P4KE16C-G                     | 12.90                                    | 14.40                                    | 17.60                                    | 1                          | 23.5                                    | 18.00                            | 5                                   |
| P4KE16CA-G                    | 13.60                                    | 15.20                                    | 16.80                                    | 1                          | 22.5                                    | 19.00                            | 5                                   |
| P4KE18C-G                     | 14.50                                    | 16.20                                    | 19.80                                    | 1                          | 26.5                                    | 16.00                            | 5                                   |
| P4KE18CA-G                    | 15.30                                    | 17.10                                    | 18.90                                    | 1                          | 25.2                                    | 17.00                            | 5                                   |
| P4KE20C-G                     | 16.20                                    | 18.00                                    | 22.00                                    | 1                          | 29.1                                    | 14.00                            | 5                                   |
| P4KE20CA-G                    | 17.10                                    | 19.00                                    | 21.00                                    | 1                          | 27.7                                    | 15.00                            | 5                                   |
| P4KE22C-G                     | 17.80                                    | 19.80                                    | 24.20                                    | 1                          | 31.9                                    | 13.00                            | 5                                   |
| P4KE22CA-G                    | 18.80                                    | 20.90                                    | 23.10                                    | 1                          | 30.6                                    | 14.00                            | 5                                   |
| P4KE24C-G                     | 19.40                                    | 21.60                                    | 26.40                                    | 1                          | 34.7                                    | 12.00                            | 5                                   |
| P4KE24CA-G                    | 20.50                                    | 22.80                                    | 25.20                                    | 1                          | 33.2                                    | 13.00                            | 5                                   |
| P4KE27C-G                     | 21.80                                    | 24.30                                    | 29.70                                    | 1                          | 39.1                                    | 11.00                            | 5                                   |
| P4KE27CA-G                    | 23.10                                    | 25.70                                    | 28.40                                    | 1                          | 37.5                                    | 11.20                            | 5                                   |
| P4KE30C-G                     | 24.30                                    | 27.00                                    | 33.00                                    | 1                          | 43.5                                    | 10.00                            | 5                                   |
| P4KE30CA-G                    | 25.60                                    | 28.50                                    | 31.50                                    | 1                          | 41.4                                    | 10.00                            | 5                                   |
| P4KE33C-G                     | 26.80                                    | 29.70                                    | 36.30                                    | 1                          | 47.7                                    | 9.00                             | 5                                   |
| P4KE33CA-G                    | 28.20                                    | 31.40                                    | 34.70                                    | 1                          | 45.7                                    | 9.00                             | 5                                   |
| P4KE36C-G                     | 29.10                                    | 32.40                                    | 39.60                                    | 1                          | 52.0                                    | 8.00                             | 5                                   |
| P4KE36CA-G                    | 30.80                                    | 34.20                                    | 37.80                                    | 1                          | 49.9                                    | 8.40                             | 5                                   |
| P4KE39C-G                     | 31.60                                    | 35.10                                    | 42.90                                    | 1                          | 56.4                                    | 7.40                             | 5                                   |
| P4KE39CA-G                    | 33.30                                    | 37.10                                    | 41.00                                    | 1                          | 53.9                                    | 7.80                             | 5                                   |
| P4KE43C-G                     | 34.80                                    | 38.70                                    | 47.30                                    | 1                          | 61.9                                    | 6.80                             | 5                                   |
| P4KE43CA-G                    | 36.80                                    | 40.90                                    | 45.20                                    | 1                          | 59.3                                    | 7.10                             | 5                                   |
| P4KE47C-G                     | 38.10                                    | 42.30                                    | 51.70                                    | 1                          | 67.8                                    | 6.20                             | 5                                   |
| P4KE47CA-G                    | 40.20                                    | 44.70                                    | 49.40                                    | 1                          | 64.8                                    | 5.00                             | 5                                   |
| P4KE51C-G                     | 41.30                                    | 45.90                                    | 56.10                                    | 1                          | 73.5                                    | 5.70                             | 5                                   |
| P4KE51CA-G                    | 43.60                                    | 48.50                                    | 53.60                                    | 1                          | 70.1                                    | 6.00                             | 5                                   |
| P4KE56C-G                     | 45.60                                    | 50.40                                    | 61.60                                    | 1                          | 80.5                                    | 5.20                             | 5                                   |
| P4KE56CA-G                    | 47.80                                    | 53.20                                    | 58.80                                    | 1                          | 77.0                                    | 5.50                             | 5                                   |
| P4KE62C-G                     | 50.20                                    | 55.80                                    | 68.20                                    | 1                          | 89.0                                    | 4.70                             | 5                                   |
| P4KE62CA-G                    | 53.00                                    | 58.90                                    | 65.10                                    | 1                          | 85.0                                    | 5.00                             | 5                                   |
| P4KE68C-G                     | 55.10                                    | 61.20                                    | 74.80                                    | 1                          | 98.0                                    | 4.30                             | 5                                   |
| P4KE68CA-G                    | 58.10                                    | 64.60                                    | 71.40                                    | 1                          | 92.0                                    | 4.60                             | 5                                   |
| P4KE75C-G                     | 60.70                                    | 67.50                                    | 82.50                                    | 1                          | 108.0                                   | 3.90                             | 5                                   |
| P4KE75CA-G                    | 64.10                                    | 71.30                                    | 78.80                                    | 1                          | 103.0                                   | 4.10                             | 5                                   |
| P4KE82C-G                     | 66.40                                    | 73.80                                    | 90.20                                    | 1                          | 118.0                                   | 3.60                             | 5                                   |
| P4KE82CA-G                    | 70.10                                    | 77.90                                    | 86.10                                    | 1                          | 113.0                                   | 3.70                             | 5                                   |
| P4KE91C-G                     | 73.70                                    | 81.90                                    | 100.00                                   | 1                          | 131.0                                   | 3.20                             | 5                                   |
| P4KE91CA-G                    | 77.80                                    | 86.50                                    | 95.50                                    | 1                          | 125.0                                   | 3.40                             | 5                                   |
| P4KE100C-G                    | 81.00                                    | 90.00                                    | 110.00                                   | 1                          | 144.0                                   | 2.90                             | 5                                   |
| P4KE100CA-G                   | 85.50                                    | 95.00                                    | 105.00                                   | 1                          | 137.0                                   | 3.10                             | 5                                   |
| P4KE110C-G                    | 89.20                                    | 99.00                                    | 121.00                                   | 1                          | 158.0                                   | 2.70                             | 5                                   |
| P4KE110CA-G                   | 94.00                                    | 105.00                                   | 116.00                                   | 1                          | 152.0                                   | 2.80                             | 5                                   |
| P4KE120C-G                    | 97.20                                    | 108.00                                   | 132.00                                   | 1                          | 173.0                                   | 2.40                             | 5                                   |
| P4KE120CA-G                   | 102.00                                   | 114.00                                   | 126.00                                   | 1                          | 165.0                                   | 2.50                             | 5                                   |
| P4KE130C-G                    | 105.00                                   | 117.00                                   | 143.00                                   | 1                          | 187.0                                   | 2.20                             | 5                                   |
| P4KE130CA-G                   | 111.00                                   | 124.00                                   | 137.00                                   | 1                          | 179.0                                   | 2.30                             | 5                                   |
| P4KE150C-G                    | 121.00                                   | 135.00                                   | 165.00                                   | 1                          | 215.0                                   | 2.00                             | 5                                   |
| P4KE150CA-G                   | 128.00                                   | 143.00                                   | 158.00                                   | 1                          | 207.0                                   | 2.00                             | 5                                   |
| P4KE160C-G                    | 130.00                                   | 144.00                                   | 176.00                                   | 1                          | 230.0                                   | 1.80                             | 5                                   |
| P4KE160CA-G                   | 136.00                                   | 152.00                                   | 168.00                                   | 1                          | 219.0                                   | 1.90                             | 5                                   |
| P4KE170C-G                    | 138.00                                   | 153.00                                   | 187.00                                   | 1                          | 244.0                                   | 1.70                             | 5                                   |
| P4KE170CA-G                   | 145.00                                   | 162.00                                   | 179.00                                   | 1                          | 234.0                                   | 1.80                             | 5                                   |
| P4KE180C-G                    | 146.00                                   | 162.00                                   | 198.00                                   | 1                          | 258.0                                   | 1.60                             | 5                                   |
| P4KE180CA-G                   | 154.00                                   | 171.00                                   | 189.00                                   | 1                          | 246.0                                   | 1.70                             | 5                                   |
| P4KE200C-G                    | 162.00                                   | 180.00                                   | 220.00                                   | 1                          | 287.0                                   | 1.50                             | 5                                   |
| P4KE200CA-G                   | 171.00                                   | 190.00                                   | 210.00                                   | 1                          | 274.0                                   | 1.53                             | 5                                   |
| P4KE220C-G                    | 175.00                                   | 198.00                                   | 242.00                                   | 1                          | 344.0                                   | 1.16                             | 5                                   |
| P4KE220CA-G                   | 185.00                                   | 209.00                                   | 231.00                                   | 1                          | 328.0                                   | 1.22                             | 5                                   |
| P4KE250C-G                    | 202.00                                   | 225.00                                   | 275.00                                   | 1                          | 360.0                                   | 1.11                             | 5                                   |
| P4KE250CA-G                   | 214.00                                   | 237.00                                   | 263.00                                   | 1                          | 344.0                                   | 1.16                             | 5                                   |
| P4KE300C-G                    | 243.00                                   | 270.00                                   | 330.00                                   | 1                          | 430.0                                   | 0.93                             | 5                                   |
| P4KE300CA-G                   | 256.00                                   | 285.00                                   | 315.00                                   | 1                          | 414.0                                   | 0.97                             | 5                                   |
| P4KE350C-G                    | 284.00                                   | 315.00                                   | 385.00                                   | 1                          | 504.0                                   | 0.79                             | 5                                   |
| P4KE350CA-G                   | 300.00                                   | 332.00                                   | 368.00                                   | 1                          | 482.0                                   | 0.83                             | 5                                   |
| P4KE400C-G                    | 324.00                                   | 360.00                                   | 440.00                                   | 1                          | 574.0                                   | 0.70                             | 5                                   |
| P4KE400CA-G                   | 342.00                                   | 380.00                                   | 420.00                                   | 1                          | 548.0                                   | 0.73                             | 5                                   |
| P4KE440C-G                    | 356.00                                   | 396.00                                   | 484.00                                   | 1                          | 631.0                                   | 0.95                             | 5                                   |
| P4KE440CA-G                   | 376.00                                   | 418.00                                   | 462.00                                   | 1                          | 600.0                                   | 1.00                             | 5                                   |

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