

## 400W TRANSIENT VOLTAGE SUPPRESSOR

### 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



### Mechanical Data

- Case: DO-41, Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band Except Bi-Directional
- Marking: Type Number
- Weight: 0.34 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 6**

| DO-41                |      |       |
|----------------------|------|-------|
| Dim                  | Min  | Max   |
| A                    | 25.4 | —     |
| B                    | 4.06 | 5.21  |
| C                    | 0.71 | 0.864 |
| D                    | 2.00 | 2.72  |
| All Dimensions in mm |      |       |

"C" Suffix Designates Bi-directional Devices  
 "A" Suffix Designates 5% Tolerance Devices  
 No Suffix Designates 10% Tolerance Devices

### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

| Characteristic   | Symbol         | Value       | Unit             |
|--|----------------|-------------|------------------|
| Peak Pulse Power Dissipation at $T_A = 25^\circ\text{C}$ (Note 1, 2, 5) Figure 3 | PPPM           | 400 Minimum | W                |
| Peak Forward Surge Current (Note 3)  | IFSM           | 40          | A                |
| Peak Pulse Current on 10/1000 $\mu\text{S}$ Waveform (Note 1) Figure 1           | IPPM           | See Table 1 | A                |
| Steady State Power Dissipation (Note 2, 4)                                       | PM(AV)         | 1.0         | W                |
| Operating and Storage Temperature Range  | $T_j, T_{STG}$ | -65 to +175 | $^\circ\text{C}$ |

- Note: 1. Non-repetitive current pulse per Figure 1 and derated above  $T_A = 25^\circ\text{C}$  per Figure 4.  
 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 $^\circ\text{C}$ .  
 5. Peak pulse power waveform is 10/1000 $\mu\text{S}$ .



Fig. 1 Pulse Waveform



Fig. 2 Typical Junction Capacitance

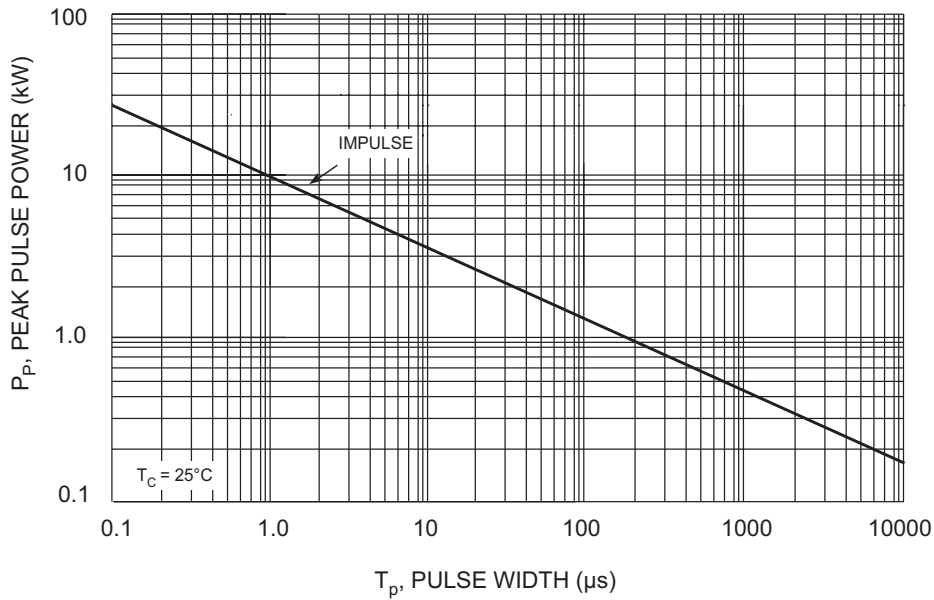


Fig. 3 Pulse Rating Curve



Fig. 4 Pulse Derating Curve

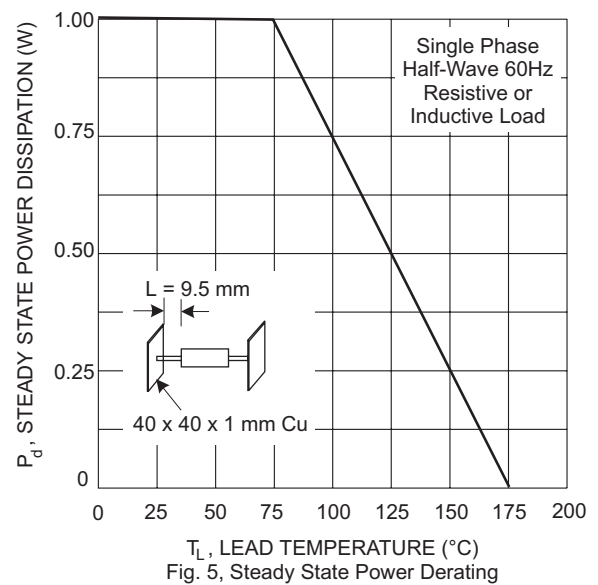


Fig. 5, Steady State Power Derating

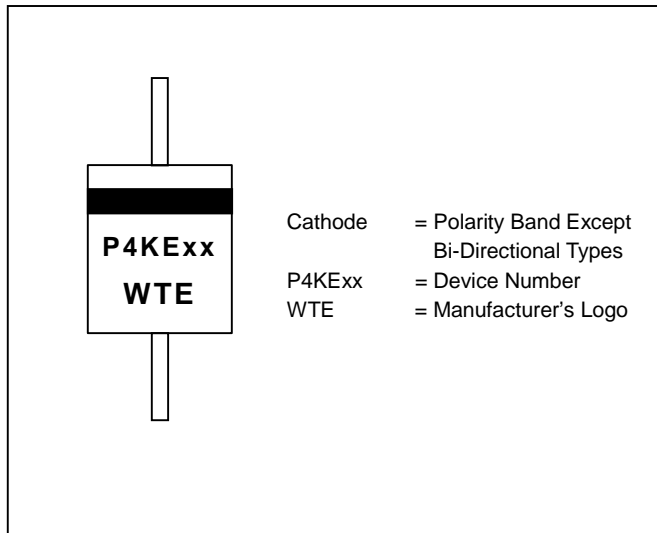
## UNI-DIRECTIONAL 400 WATT AXIAL LEAD TVS

| UNI-DIRECTIONAL 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) |
|-----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| P4KE6.8                     | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8                                 | 38.00                      | 1000                          |
| P4KE6.8A                    | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5                                 | 38.10                      | 1000                          |
| P4KE7.5                     | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7                                 | 34.20                      | 500                           |
| P4KE7.5A                    | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3                                 | 35.40                      | 500                           |
| P4KE8.2                     | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5                                 | 32.00                      | 200                           |
| P4KE8.2A                    | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1                                 | 33.10                      | 200                           |
| P4KE9.1                     | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8                                 | 29.00                      | 50                            |
| P4KE9.1A                    | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4                                 | 29.90                      | 50                            |
| P4KE10                      | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0                                 | 26.70                      | 10                            |
| P4KE10A                     | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5                                 | 27.60                      | 10                            |
| P4KE11                      | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2                                 | 24.70                      | 5                             |
| P4KE11A                     | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6                                 | 25.60                      | 5                             |
| P4KE12                      | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3                                 | 23.10                      | 1                             |
| P4KE12A                     | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7                                 | 24.00                      | 1                             |
| P4KE13                      | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0                                 | 21.10                      | 1                             |
| P4KE13A                     | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2                                 | 22.00                      | 1                             |
| P4KE15                      | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0                                 | 18.20                      | 1                             |
| P4KE15A                     | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2                                 | 18.90                      | 1                             |
| P4KE16                      | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5                                 | 17.00                      | 1                             |
| P4KE16A                     | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5                                 | 17.80                      | 1                             |
| P4KE18                      | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5                                 | 15.10                      | 1                             |
| P4KE18A                     | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2                                 | 15.90                      | 1                             |
| P4KE20                      | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1                                 | 13.70                      | 1                             |
| P4KE20A                     | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7                                 | 14.40                      | 1                             |
| P4KE22                      | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9                                 | 12.50                      | 1                             |
| P4KE22A                     | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6                                 | 13.10                      | 1                             |
| P4KE24                      | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7                                 | 11.50                      | 1                             |
| P4KE24A                     | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2                                 | 12.00                      | 1                             |
| P4KE27                      | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1                                 | 10.20                      | 1                             |
| P4KE27A                     | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5                                 | 10.70                      | 1                             |
| P4KE30                      | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5                                 | 9.20                       | 1                             |
| P4KE30A                     | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4                                 | 9.70                       | 1                             |
| P4KE33                      | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7                                 | 8.40                       | 1                             |
| P4KE33A                     | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7                                 | 8.80                       | 1                             |
| P4KE36                      | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0                                 | 7.70                       | 1                             |
| P4KE36A                     | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9                                 | 8.00                       | 1                             |
| P4KE39                      | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4                                 | 7.10                       | 1                             |
| P4KE39A                     | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9                                 | 7.40                       | 1                             |
| P4KE43                      | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9                                 | 6.50                       | 1                             |
| P4KE43A                     | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3                                 | 6.70                       | 1                             |
| P4KE47                      | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8                                 | 5.90                       | 1                             |
| P4KE47A                     | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8                                 | 6.20                       | 1                             |
| P4KE51                      | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5                                 | 5.40                       | 1                             |
| P4KE51A                     | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1                                 | 5.70                       | 1                             |
| P4KE56                      | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5                                 | 5.00                       | 1                             |
| P4KE56A                     | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0                                 | 5.20                       | 1                             |
| P4KE62                      | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0                                 | 4.50                       | 1                             |
| P4KE62A                     | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0                                 | 4.70                       | 1                             |
| P4KE68                      | 55.10                              | 61.20                              | 74.80                              | 1                    | 98.0                                 | 4.10                       | 1                             |
| P4KE68A                     | 58.10                              | 64.60                              | 71.40                              | 1                    | 92.0                                 | 4.30                       | 1                             |
| P4KE75                      | 60.70                              | 67.50                              | 82.50                              | 1                    | 108.0                                | 3.70                       | 1                             |
| P4KE75A                     | 64.10                              | 71.30                              | 78.80                              | 1                    | 103.0                                | 3.90                       | 1                             |
| P4KE82                      | 66.40                              | 73.80                              | 90.20                              | 1                    | 118.0                                | 3.40                       | 1                             |
| P4KE82A                     | 70.10                              | 77.90                              | 86.10                              | 1                    | 113.0                                | 3.50                       | 1                             |
| P4KE91                      | 73.70                              | 81.90                              | 100.00                             | 1                    | 131.0                                | 3.10                       | 1                             |
| P4KE91A                     | 77.80                              | 86.50                              | 95.50                              | 1                    | 125.0                                | 3.20                       | 1                             |
| P4KE100                     | 81.00                              | 90.00                              | 110.00                             | 1                    | 144.0                                | 2.80                       | 1                             |
| P4KE100A                    | 85.50                              | 95.00                              | 105.00                             | 1                    | 137.0                                | 2.90                       | 1                             |
| P4KE110                     | 89.20                              | 99.00                              | 121.00                             | 1                    | 158.0                                | 2.50                       | 1                             |
| P4KE110A                    | 94.00                              | 105.00                             | 116.00                             | 1                    | 152.0                                | 2.60                       | 1                             |
| P4KE120                     | 97.20                              | 108.00                             | 132.00                             | 1                    | 173.0                                | 2.30                       | 1                             |
| P4KE120A                    | 102.00                             | 114.00                             | 126.00                             | 1                    | 165.0                                | 2.40                       | 1                             |
| P4KE130                     | 105.00                             | 117.00                             | 143.00                             | 1                    | 187.0                                | 2.10                       | 1                             |
| P4KE130A                    | 111.00                             | 124.00                             | 137.00                             | 1                    | 179.0                                | 2.20                       | 1                             |
| P4KE150                     | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0                                | 1.90                       | 1                             |
| P4KE150A                    | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0                                | 1.90                       | 1                             |
| P4KE160                     | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0                                | 1.70                       | 1                             |
| P4KE160A                    | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0                                | 1.80                       | 1                             |
| P4KE170                     | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0                                | 1.60                       | 1                             |
| P4KE170A                    | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0                                | 1.70                       | 1                             |
| P4KE180                     | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0                                | 1.60                       | 1                             |
| P4KE180A                    | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0                                | 1.60                       | 1                             |
| P4KE200                     | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0                                | 1.40                       | 1                             |
| P4KE200A                    | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0                                | 1.50                       | 1                             |
| P4KE220                     | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0                                | 1.20                       | 1                             |
| P4KE220A                    | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0                                | 1.20                       | 1                             |
| P4KE250                     | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0                                | 1.10                       | 1                             |
| P4KE250A                    | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0                                | 1.20                       | 1                             |
| P4KE300                     | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0                                | 0.93                       | 1                             |
| P4KE300A                    | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0                                | 1.00                       | 1                             |
| P4KE350                     | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0                                | 0.79                       | 1                             |
| P4KE350A                    | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0                                | 0.83                       | 1                             |
| P4KE400                     | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0                                | 0.70                       | 1                             |
| P4KE400A                    | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0                                | 0.73                       | 1                             |
| P4KE440                     | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0                                | 0.63                       | 1                             |
| P4KE440A                    | 376.00                             | 418.00                             | 462.00                             | 1                    | 602.0                                | 0.66                       | 1                             |

## BI-DIRECTIONAL 400 WATT AXIAL LEAD TVS

| BI-DIRECTIONAL PART NUMBER | REVERSE STAND-OFF VOLTAGE VRWM (V) | BREAKDOWN VOLTAGE VBR (V) MIN. @IT | BREAKDOWN VOLTAGE VBR (V) MAX. @IT | TEST CURRENT IT (mA) | MAXIMUM CLAMPING VOLTAGE @Ipp Vc (V) | PEAK PULSE CURRENT Ipp (A) | REVERSE LEAKAGE @VRWM IR (uA) |
|----------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------|
| P4KE6.8C                   | 5.50                               | 6.12                               | 7.48                               | 10                   | 10.8                                 | 38.00                      | 2000                          |
| P4KE6.8CA                  | 5.80                               | 6.45                               | 7.14                               | 10                   | 10.5                                 | 38.10                      | 2000                          |
| P4KE7.5C                   | 6.05                               | 6.75                               | 8.25                               | 10                   | 11.7                                 | 34.20                      | 1000                          |
| P4KE7.5CA                  | 6.40                               | 7.13                               | 7.88                               | 10                   | 11.3                                 | 35.40                      | 1000                          |
| P4KE8.2C                   | 6.63                               | 7.38                               | 9.02                               | 10                   | 12.5                                 | 32.00                      | 400                           |
| P4KE8.2CA                  | 7.02                               | 7.79                               | 8.61                               | 10                   | 12.1                                 | 33.10                      | 400                           |
| P4KE9.1C                   | 7.37                               | 8.19                               | 10.00                              | 1                    | 13.8                                 | 29.00                      | 100                           |
| P4KE9.1CA                  | 7.78                               | 8.65                               | 9.50                               | 1                    | 13.4                                 | 29.90                      | 100                           |
| P4KE10C                    | 8.10                               | 9.00                               | 11.00                              | 1                    | 15.0                                 | 26.70                      | 20                            |
| P4KE10CA                   | 8.55                               | 9.50                               | 10.50                              | 1                    | 14.5                                 | 27.60                      | 20                            |
| P4KE11C                    | 8.92                               | 9.90                               | 12.10                              | 1                    | 16.2                                 | 24.70                      | 10                            |
| P4KE11CA                   | 9.40                               | 10.50                              | 11.60                              | 1                    | 15.6                                 | 25.60                      | 10                            |
| P4KE12C                    | 9.72                               | 10.80                              | 13.20                              | 1                    | 17.3                                 | 23.10                      | 1                             |
| P4KE12CA                   | 10.20                              | 11.40                              | 12.60                              | 1                    | 16.7                                 | 24.00                      | 1                             |
| P4KE13C                    | 10.50                              | 11.70                              | 14.30                              | 1                    | 19.0                                 | 21.10                      | 1                             |
| P4KE13CA                   | 11.10                              | 12.40                              | 13.70                              | 1                    | 18.2                                 | 22.00                      | 1                             |
| P4KE15C                    | 12.10                              | 13.50                              | 16.50                              | 1                    | 22.0                                 | 18.20                      | 1                             |
| P4KE15CA                   | 12.80                              | 14.30                              | 15.80                              | 1                    | 21.2                                 | 18.90                      | 1                             |
| P4KE16C                    | 12.90                              | 14.40                              | 17.60                              | 1                    | 23.5                                 | 17.00                      | 1                             |
| P4KE16CA                   | 13.60                              | 15.20                              | 16.80                              | 1                    | 22.5                                 | 17.80                      | 1                             |
| P4KE18C                    | 14.50                              | 16.20                              | 19.80                              | 1                    | 26.5                                 | 15.10                      | 1                             |
| P4KE18CA                   | 15.30                              | 17.10                              | 18.90                              | 1                    | 25.2                                 | 15.90                      | 1                             |
| P4KE20C                    | 16.20                              | 18.00                              | 22.00                              | 1                    | 29.1                                 | 13.70                      | 1                             |
| P4KE20CA                   | 17.10                              | 19.00                              | 21.00                              | 1                    | 27.7                                 | 14.40                      | 1                             |
| P4KE22C                    | 17.80                              | 19.80                              | 24.20                              | 1                    | 31.9                                 | 12.50                      | 1                             |
| P4KE22CA                   | 18.80                              | 20.90                              | 23.10                              | 1                    | 30.6                                 | 13.10                      | 1                             |
| P4KE24C                    | 19.40                              | 21.60                              | 26.40                              | 1                    | 34.7                                 | 11.50                      | 1                             |
| P4KE24CA                   | 20.50                              | 22.80                              | 25.20                              | 1                    | 33.2                                 | 12.00                      | 1                             |
| P4KE27C                    | 21.80                              | 24.30                              | 29.70                              | 1                    | 39.1                                 | 10.20                      | 1                             |
| P4KE27CA                   | 23.10                              | 25.70                              | 28.40                              | 1                    | 37.5                                 | 10.70                      | 1                             |
| P4KE30C                    | 24.30                              | 27.00                              | 33.00                              | 1                    | 43.5                                 | 9.20                       | 1                             |
| P4KE30CA                   | 25.60                              | 28.50                              | 31.50                              | 1                    | 41.4                                 | 9.70                       | 1                             |
| P4KE33C                    | 26.80                              | 29.70                              | 36.30                              | 1                    | 47.7                                 | 8.40                       | 1                             |
| P4KE33CA                   | 28.20                              | 31.40                              | 34.70                              | 1                    | 45.7                                 | 8.80                       | 1                             |
| P4KE36C                    | 29.10                              | 32.40                              | 39.60                              | 1                    | 52.0                                 | 7.70                       | 1                             |
| P4KE36CA                   | 30.80                              | 34.20                              | 37.80                              | 1                    | 49.9                                 | 8.00                       | 1                             |
| P4KE39C                    | 31.60                              | 35.10                              | 42.90                              | 1                    | 56.4                                 | 7.10                       | 1                             |
| P4KE39CA                   | 33.30                              | 37.10                              | 41.00                              | 1                    | 53.9                                 | 7.40                       | 1                             |
| P4KE43C                    | 34.80                              | 38.70                              | 47.30                              | 1                    | 61.9                                 | 6.50                       | 1                             |
| P4KE43CA                   | 36.80                              | 40.90                              | 45.20                              | 1                    | 59.3                                 | 6.70                       | 1                             |
| P4KE47C                    | 38.10                              | 42.30                              | 51.70                              | 1                    | 67.8                                 | 5.90                       | 1                             |
| P4KE47CA                   | 40.20                              | 44.70                              | 49.40                              | 1                    | 64.8                                 | 6.20                       | 1                             |
| P4KE51C                    | 41.30                              | 45.90                              | 56.10                              | 1                    | 73.5                                 | 5.40                       | 1                             |
| P4KE51CA                   | 43.60                              | 48.50                              | 53.60                              | 1                    | 70.1                                 | 5.70                       | 1                             |
| P4KE56C                    | 45.60                              | 50.40                              | 61.60                              | 1                    | 80.5                                 | 5.00                       | 1                             |
| P4KE56CA                   | 47.80                              | 53.20                              | 58.80                              | 1                    | 77.0                                 | 5.20                       | 1                             |
| P4KE62C                    | 50.20                              | 55.80                              | 68.20                              | 1                    | 89.0                                 | 4.50                       | 1                             |
| P4KE62CA                   | 53.00                              | 58.90                              | 65.10                              | 1                    | 85.0                                 | 4.70                       | 1                             |
| P4KE68C                    | 55.10                              | 61.20                              | 74.80                              | 1                    | 98.0                                 | 4.10                       | 1                             |
| P4KE68CA                   | 58.10                              | 64.60                              | 71.40                              | 1                    | 92.0                                 | 4.30                       | 1                             |
| P4KE75C                    | 60.70                              | 67.50                              | 82.50                              | 1                    | 108.0                                | 3.70                       | 1                             |
| P4KE75CA                   | 64.10                              | 71.30                              | 78.80                              | 1                    | 103.0                                | 3.90                       | 1                             |
| P4KE82C                    | 66.40                              | 73.80                              | 90.20                              | 1                    | 118.0                                | 3.40                       | 1                             |
| P4KE82CA                   | 70.10                              | 77.90                              | 86.10                              | 1                    | 113.0                                | 3.50                       | 1                             |
| P4KE91C                    | 73.70                              | 81.90                              | 100.00                             | 1                    | 131.0                                | 3.10                       | 1                             |
| P4KE91CA                   | 77.80                              | 86.50                              | 95.50                              | 1                    | 125.0                                | 3.20                       | 1                             |
| P4KE100C                   | 81.00                              | 90.00                              | 110.00                             | 1                    | 144.0                                | 2.80                       | 1                             |
| P4KE100CA                  | 85.50                              | 95.00                              | 105.00                             | 1                    | 137.0                                | 2.90                       | 1                             |
| P4KE110C                   | 89.20                              | 99.00                              | 121.00                             | 1                    | 158.0                                | 2.50                       | 1                             |
| P4KE110CA                  | 94.00                              | 105.00                             | 116.00                             | 1                    | 152.0                                | 2.60                       | 1                             |
| P4KE120C                   | 97.20                              | 108.00                             | 132.00                             | 1                    | 173.0                                | 2.30                       | 1                             |
| P4KE120CA                  | 102.00                             | 114.00                             | 126.00                             | 1                    | 165.0                                | 2.40                       | 1                             |
| P4KE130C                   | 105.00                             | 117.00                             | 143.00                             | 1                    | 187.0                                | 2.10                       | 1                             |
| P4KE130CA                  | 111.00                             | 124.00                             | 137.00                             | 1                    | 179.0                                | 2.20                       | 1                             |
| P4KE150C                   | 121.00                             | 135.00                             | 165.00                             | 1                    | 215.0                                | 1.90                       | 1                             |
| P4KE150CA                  | 128.00                             | 143.00                             | 158.00                             | 1                    | 207.0                                | 1.90                       | 1                             |
| P4KE160C                   | 130.00                             | 144.00                             | 176.00                             | 1                    | 230.0                                | 1.70                       | 1                             |
| P4KE160CA                  | 136.00                             | 152.00                             | 168.00                             | 1                    | 219.0                                | 1.80                       | 1                             |
| P4KE170C                   | 138.00                             | 153.00                             | 187.00                             | 1                    | 244.0                                | 1.60                       | 1                             |
| P4KE170CA                  | 145.00                             | 162.00                             | 179.00                             | 1                    | 234.0                                | 1.70                       | 1                             |
| P4KE180C                   | 146.00                             | 162.00                             | 198.00                             | 1                    | 258.0                                | 1.60                       | 1                             |
| P4KE180CA                  | 154.00                             | 171.00                             | 189.00                             | 1                    | 246.0                                | 1.60                       | 1                             |
| P4KE200C                   | 162.00                             | 180.00                             | 220.00                             | 1                    | 287.0                                | 1.40                       | 1                             |
| P4KE200CA                  | 171.00                             | 190.00                             | 210.00                             | 1                    | 274.0                                | 1.50                       | 1                             |
| P4KE220C                   | 175.00                             | 198.00                             | 242.00                             | 1                    | 344.0                                | 1.20                       | 1                             |
| P4KE220CA                  | 185.00                             | 209.00                             | 231.00                             | 1                    | 328.0                                | 1.20                       | 1                             |
| P4KE250C                   | 202.00                             | 225.00                             | 275.00                             | 1                    | 360.0                                | 1.10                       | 1                             |
| P4KE250CA                  | 214.00                             | 237.00                             | 263.00                             | 1                    | 344.0                                | 1.20                       | 1                             |
| P4KE300C                   | 243.00                             | 270.00                             | 330.00                             | 1                    | 430.0                                | 0.93                       | 1                             |
| P4KE300CA                  | 256.00                             | 285.00                             | 315.00                             | 1                    | 414.0                                | 1.00                       | 1                             |
| P4KE350C                   | 284.00                             | 315.00                             | 385.00                             | 1                    | 504.0                                | 0.79                       | 1                             |
| P4KE350CA                  | 300.00                             | 332.00                             | 368.00                             | 1                    | 482.0                                | 0.83                       | 1                             |
| P4KE400C                   | 324.00                             | 360.00                             | 440.00                             | 1                    | 574.0                                | 0.70                       | 1                             |
| P4KE400CA                  | 342.00                             | 380.00                             | 420.00                             | 1                    | 548.0                                | 0.73                       | 1                             |
| P4KE440C                   | 356.00                             | 396.00                             | 484.00                             | 1                    | 631.0                                | 0.63                       | 1                             |
| P4KE440CA                  | 376.00                             | 418.00                             | 462.00                             | 1                    | 602.0                                | 0.66                       | 1                             |

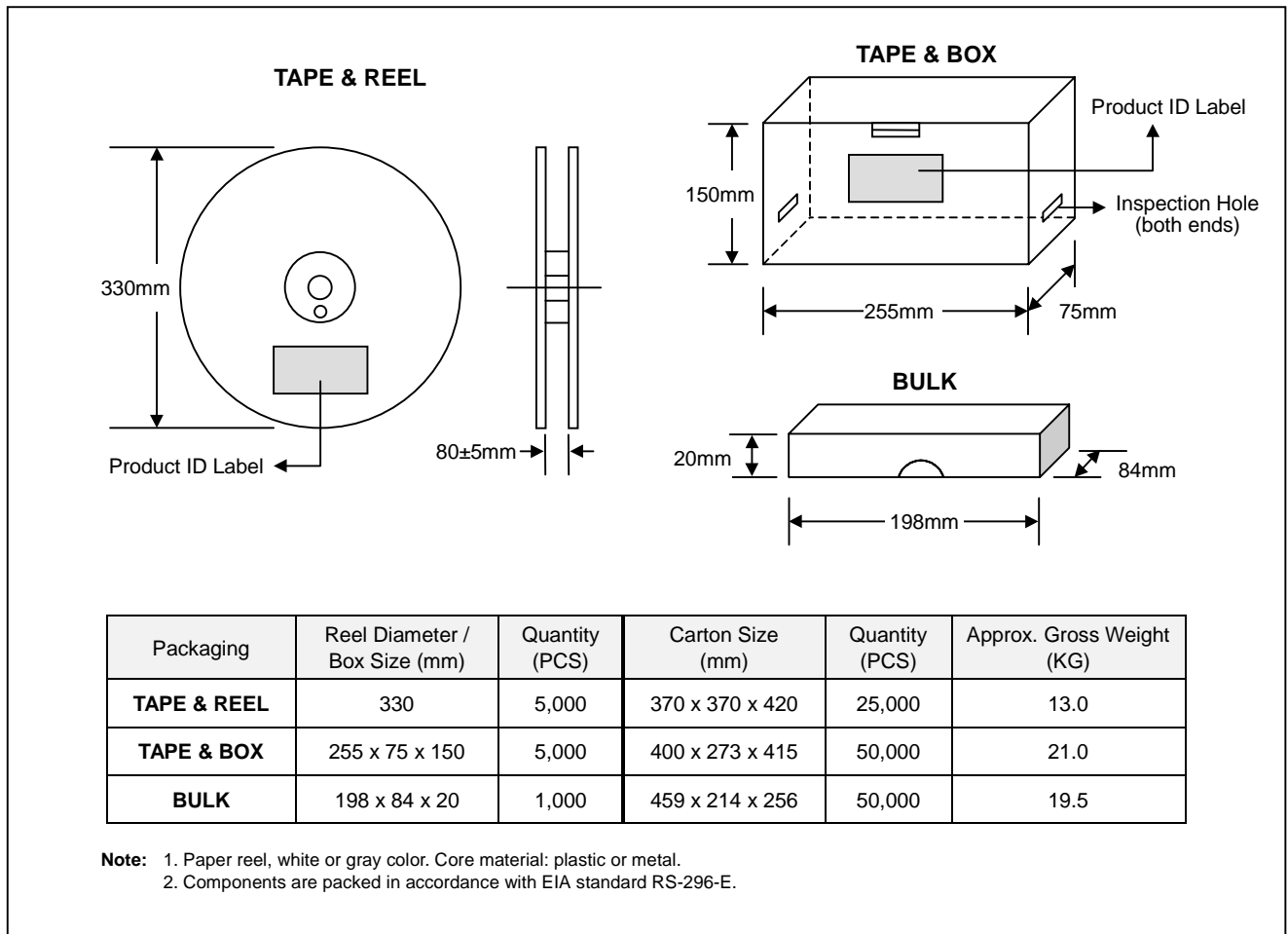
## MARKING INFORMATION



## TAPING SPECIFICATIONS



## PACKAGING INFORMATION



## ORDERING INFORMATION

| Product No.      | Package Type | Shipping Quantity |
|------------------|--------------|-------------------|
| P4KExx-T3        | DO-41        | 5000/Tape & Reel  |
| <b>P4KExx-TB</b> | DO-41        | 5000/Tape & Box   |
| P4KExx           | DO-41        | 1000 Units/Box    |

1. Products listed in **bold** are WTE **Preferred** devices.
2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
3. **To order RoHS / Lead Free version, add "-LF" suffix to part number above. For example, P4KE6.8-TB-LF.**

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**WARNING:** DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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