

## P4KE SERIES

### GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR POWER 400 Watt

#### BREAK DOWN VOLTAGE

6.8 to 440 Volt

#### DO-41

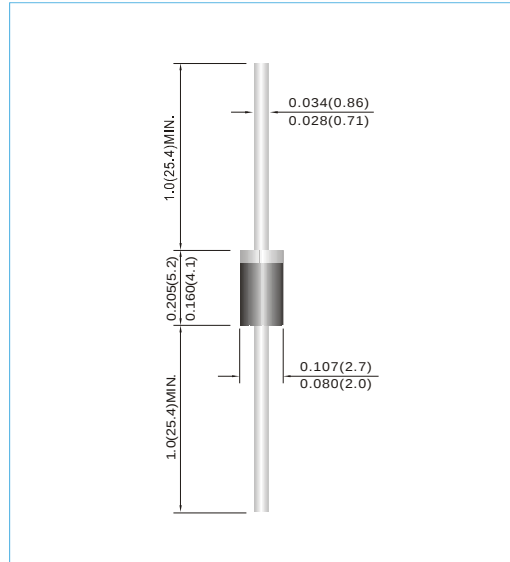
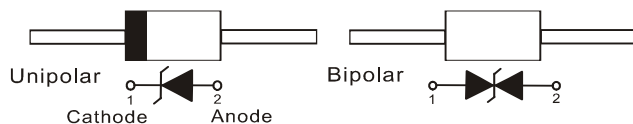
Unit : inch(mm)

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1 ps from 0 volts to BV min
- ESD IEC-61000-4-2 Air  $\pm 30$ kV, Contact  $\pm 30$ kV
- Lead free in compliance with EU RoHS 2011/65/EU directive

#### MECHANICAL DATA

- Case: JEDEC DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.012 ounce, 0.336 gram



### MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

### DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types  
Electrical characteristics apply in both directions.

| Rating                                                                                       | Symbol          | Value                | Units                       |
|----------------------------------------------------------------------------------------------|-----------------|----------------------|-----------------------------|
| Peak Power Dissipation at $T_A=25^\circ\text{C}$ , $t_p=1\text{ms}$ (Notes 1)                | $P_{PP}$        | 400                  | Watts                       |
| ESD IEC-61000-4-2 (Air)<br>ESD IEC-61000-4-2 (Contact)                                       | $V_{ESD}$       | $\pm 30$<br>$\pm 30$ | kV                          |
| Typical Thermal Resistance Junction to Air Lead Lengths 0.375", (9.5mm)<br>(Notes 2)         | $R_{\theta JA}$ | 60                   | $^\circ\text{C} / \text{W}$ |
| Peak Pulse Current on $t_p=10/1000\mu\text{s}$ waveform (Notes 1)                            | $I_{PPM}$       | see Table            | Amps                        |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Notes 3) | $I_{FSM}$       | 40                   | Amps                        |
| Operating Junction and Storage Temperature Range                                             | $T_J, T_{STG}$  | -65 to +175          | $^\circ\text{C}$            |

#### NOTES :

1. Non-repetitive current pulse, per Fig. 3 and derated above  $T_A=25^\circ\text{C}$  per Fig. 2.
2. Mounted on Copper Leaf area of  $1.57\text{ in}^2$  ( $40\text{mm}^2$ ).
3. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.
4. A transient suppressor is selected according to the working peak reverse voltage ( $V_{RWM}$ ), which should be equal to or greater than the DC or continuous peak operating voltage level.



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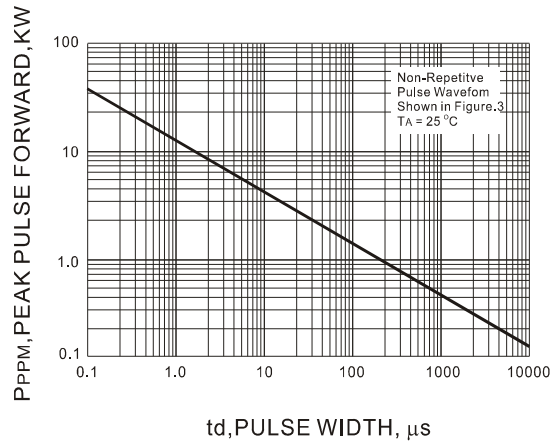
| Part Number                       |           | Reverse Stand-off Voltage | Breakdown Voltage             |      | Test Current | Reverse Leakage |      | Max. Clamp Voltage<br>10/1000µs | Peak Pulse Current<br>10/1000µs  | Marking Code |           |
|-----------------------------------|-----------|---------------------------|-------------------------------|------|--------------|-----------------|------|---------------------------------|----------------------------------|--------------|-----------|
|                                   |           |                           |                               |      |              |                 |      |                                 |                                  |              |           |
|                                   |           |                           | V <sub>RWM</sub><br>(Notes 4) | Min. | Max.         | I <sub>T</sub>  | UNI  | BI                              | V <sub>C</sub> @ I <sub>PP</sub> |              |           |
| UNI                               | BI        | V                         | V                             | V    | mA           | µA              | µA   | V                               | A                                | UNI          | BI        |
| 400W Transient Voltage Suppressor |           |                           |                               |      |              |                 |      |                                 |                                  |              |           |
| P4KE6.8                           | P4KE6.8C  | 5.5                       | 6.12                          | 7.48 | 10           | 1000            | 2000 | 10.8                            | 38                               | P4KE6.8      | P4KE6.8C  |
| P4KE6.8A                          | P4KE6.8CA | 5.8                       | 6.45                          | 7.14 | 10           | 1000            | 2000 | 10.5                            | 40                               | P4KE6.8A     | P4KE6.8CA |
| P4KE7.5                           | P4KE7.5C  | 6.05                      | 6.75                          | 8.25 | 10           | 500             | 1000 | 11.7                            | 36                               | P4KE7.5      | P4KE7.5C  |
| P4KE7.5A                          | P4KE7.5CA | 6.4                       | 7.13                          | 7.88 | 10           | 500             | 1000 | 11.3                            | 37                               | P4KE7.5A     | P4KE7.5CA |
| P4KE8.2                           | P4KE8.2C  | 6.63                      | 7.38                          | 9.02 | 10           | 200             | 400  | 12.5                            | 33                               | P4KE8.2      | P4KE8.2C  |
| P4KE8.2A                          | P4KE8.2CA | 7.02                      | 7.79                          | 8.61 | 10           | 200             | 400  | 12.1                            | 35                               | P4KE8.2A     | P4KE8.2CA |
| P4KE9.1                           | P4KE9.1C  | 7.37                      | 8.19                          | 10   | 1            | 50              | 100  | 13.8                            | 30                               | P4KE9.1      | P4KE9.1C  |
| P4KE9.1A                          | P4KE9.1CA | 7.78                      | 8.65                          | 9.5  | 1            | 50              | 100  | 13.4                            | 31                               | P4KE9.1A     | P4KE9.1CA |
| P4KE10                            | P4KE10C   | 8.1                       | 9                             | 11   | 1            | 10              | 20   | 15                              | 28                               | P4KE10       | P4KE10C   |
| P4KE10A                           | P4KE10CA  | 8.55                      | 9.5                           | 10.5 | 1            | 10              | 20   | 14.5                            | 29                               | P4KE10A      | P4KE10CA  |
| P4KE11                            | P4KE11C   | 8.9                       | 9.9                           | 12.1 | 1            | 5               | 10   | 16.2                            | 26                               | P4KE11       | P4KE11C   |
| P4KE11A                           | P4KE11CA  | 9.4                       | 10.5                          | 11.6 | 1            | 5               | 10   | 15.6                            | 27                               | P4KE11A      | P4KE11CA  |
| P4KE12                            | P4KE12C   | 9.72                      | 10.8                          | 13.2 | 1            | 1               | 1    | 17.3                            | 24                               | P4KE12       | P4KE12C   |
| P4KE12A                           | P4KE12CA  | 10.2                      | 11.4                          | 12.6 | 1            | 1               | 1    | 16.7                            | 25                               | P4KE12A      | P4KE12CA  |
| P4KE13                            | P4KE13C   | 10.5                      | 11.7                          | 14.3 | 1            | 1               | 1    | 19                              | 22                               | P4KE13       | P4KE13C   |
| P4KE13A                           | P4KE13CA  | 11.1                      | 12.4                          | 13.7 | 1            | 1               | 1    | 18.2                            | 23                               | P4KE13A      | P4KE13CA  |
| P4KE15                            | P4KE15C   | 12.1                      | 13.5                          | 16.5 | 1            | 1               | 1    | 22                              | 19                               | P4KE15       | P4KE15C   |
| P4KE15A                           | P4KE15CA  | 12.8                      | 14.3                          | 15.8 | 1            | 1               | 1    | 21.2                            | 20                               | P4KE15A      | P4KE15CA  |
| P4KE16                            | P4KE16C   | 12.9                      | 14.4                          | 17.6 | 1            | 1               | 1    | 23.5                            | 18                               | P4KE16       | P4KE16C   |
| P4KE16A                           | P4KE16CA  | 13.6                      | 15.2                          | 16.8 | 1            | 1               | 1    | 22.5                            | 19                               | P4KE16A      | P4KE16CA  |
| P4KE18                            | P4KE18C   | 14.5                      | 16.2                          | 19.8 | 1            | 1               | 1    | 26.5                            | 16                               | P4KE18       | P4KE18C   |
| P4KE18A                           | P4KE18CA  | 15.3                      | 17.1                          | 18.9 | 1            | 1               | 1    | 25.2                            | 17                               | P4KE18A      | P4KE18CA  |
| P4KE20                            | P4KE20C   | 16.2                      | 18                            | 22   | 1            | 1               | 1    | 29.1                            | 14                               | P4KE20       | P4KE20C   |
| P4KE20A                           | P4KE20CA  | 17.1                      | 19                            | 21   | 1            | 1               | 1    | 27.7                            | 15                               | P4KE20A      | P4KE20CA  |
| P4KE22                            | P4KE22C   | 17.8                      | 19.8                          | 24.2 | 1            | 1               | 1    | 31.9                            | 13                               | P4KE22       | P4KE22C   |
| P4KE22A                           | P4KE22CA  | 18.8                      | 20.9                          | 23.1 | 1            | 1               | 1    | 30.6                            | 14                               | P4KE22A      | P4KE22CA  |
| P4KE24                            | P4KE24C   | 19.4                      | 21.6                          | 26.4 | 1            | 1               | 1    | 34.7                            | 12                               | P4KE24       | P4KE24C   |
| P4KE24A                           | P4KE24CA  | 20.5                      | 22.8                          | 25.2 | 1            | 1               | 1    | 33.2                            | 13                               | P4KE24A      | P4KE24CA  |
| P4KE27                            | P4KE27C   | 21.8                      | 24.3                          | 29.7 | 1            | 1               | 1    | 39.1                            | 11                               | P4KE27       | P4KE27C   |
| P4KE27A                           | P4KE27CA  | 23.1                      | 25.7                          | 28.4 | 1            | 1               | 1    | 37.5                            | 11.2                             | P4KE27A      | P4KE27CA  |
| P4KE30                            | P4KE30C   | 24.3                      | 27                            | 33   | 1            | 1               | 1    | 43.5                            | 10                               | P4KE30       | P4KE30C   |
| P4KE30A                           | P4KE30CA  | 25.6                      | 28.5                          | 31.5 | 1            | 1               | 1    | 41.4                            | 10                               | P4KE30A      | P4KE30CA  |
| P4KE33                            | P4KE33C   | 26.8                      | 29.7                          | 36.3 | 1            | 1               | 1    | 47.7                            | 9                                | P4KE33       | P4KE33C   |
| P4KE33A                           | P4KE33CA  | 28.2                      | 31.4                          | 34.7 | 1            | 1               | 1    | 45.7                            | 9                                | P4KE33A      | P4KE33CA  |
| P4KE36                            | P4KE36C   | 29.1                      | 32.4                          | 39.6 | 1            | 1               | 1    | 52                              | 8                                | P4KE36       | P4KE36C   |
| P4KE36A                           | P4KE36CA  | 30.8                      | 34.2                          | 37.8 | 1            | 1               | 1    | 49.9                            | 8.4                              | P4KE36A      | P4KE36CA  |
| P4KE39                            | P4KE39C   | 31.6                      | 35.1                          | 42.9 | 1            | 1               | 1    | 56.4                            | 7.4                              | P4KE39       | P4KE39C   |
| P4KE39A                           | P4KE39CA  | 33.3                      | 37.1                          | 41   | 1            | 1               | 1    | 53.9                            | 7.8                              | P4KE39A      | P4KE39CA  |
| P4KE43                            | P4KE43C   | 34.8                      | 38.7                          | 47.3 | 1            | 1               | 1    | 61.9                            | 6.8                              | P4KE43       | P4KE43C   |
| P4KE43A                           | P4KE43CA  | 36.8                      | 40.9                          | 45.2 | 1            | 1               | 1    | 59.3                            | 7.1                              | P4KE43A      | P4KE43CA  |
| P4KE47                            | P4KE47C   | 38.1                      | 42.3                          | 51.7 | 1            | 1               | 1    | 67.8                            | 6.2                              | P4KE47       | P4KE47C   |
| P4KE47A                           | P4KE47CA  | 40.2                      | 44.7                          | 49.4 | 1            | 1               | 1    | 64.8                            | 5                                | P4KE47A      | P4KE47CA  |
| P4KE51                            | P4KE51C   | 41.3                      | 45.9                          | 56.1 | 1            | 1               | 1    | 73.5                            | 5.7                              | P4KE51       | P4KE51C   |



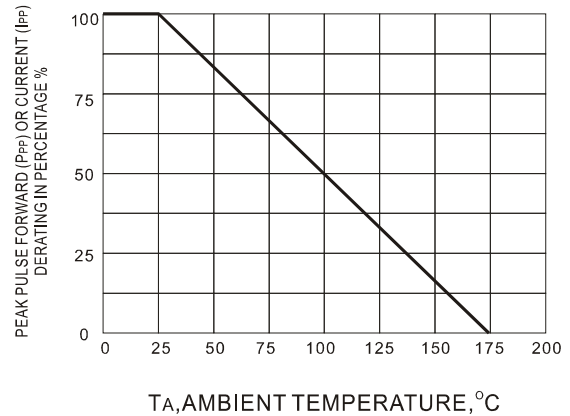
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| Part Number                       |           | Reverse Stand-off Voltage     | Breakdown Voltage                |      | Test Current   | Reverse Leakage                   |    | Max. Clamp Voltage<br>10/1000μs  | Peak Pulse Current<br>10/1000μs | Marking code |           |
|-----------------------------------|-----------|-------------------------------|----------------------------------|------|----------------|-----------------------------------|----|----------------------------------|---------------------------------|--------------|-----------|
|                                   |           | V <sub>RWM</sub><br>(Notes 4) | V <sub>BR</sub> @ I <sub>T</sub> |      | I <sub>T</sub> | I <sub>R</sub> @ V <sub>RWM</sub> |    | V <sub>C</sub> @ I <sub>PP</sub> | I <sub>PP</sub>                 |              |           |
|                                   |           |                               | Min.                             | Max. |                | UNI                               | BI |                                  |                                 |              |           |
| UNI                               | BI        | V                             | V                                | V    | mA             | μA                                | μA | V                                | A                               | UNI          | BI        |
| 400W Transient Voltage Suppressor |           |                               |                                  |      |                |                                   |    |                                  |                                 |              |           |
| P4KE51A                           | P4KE51CA  | 43.6                          | 48.5                             | 53.6 | 1              | 1                                 | 1  | 70.1                             | 6                               | P4KE51A      | P4KE51CA  |
| P4KE56                            | P4KE56C   | 45.6                          | 50.4                             | 61.6 | 1              | 1                                 | 1  | 80.5                             | 5.2                             | P4KE56       | P4KE56C   |
| P4KE56A                           | P4KE56CA  | 47.8                          | 53.2                             | 58.8 | 1              | 1                                 | 1  | 77                               | 5.5                             | P4KE56A      | P4KE56CA  |
| P4KE62                            | P4KE62C   | 50.2                          | 55.8                             | 68.2 | 1              | 1                                 | 1  | 89                               | 4.7                             | P4KE62       | P4KE62C   |
| P4KE62A                           | P4KE62CA  | 53                            | 58.9                             | 65.1 | 1              | 1                                 | 1  | 85                               | 5                               | P4KE62A      | P4KE62CA  |
| P4KE68                            | P4KE68C   | 55.1                          | 61.2                             | 74.8 | 1              | 1                                 | 1  | 98                               | 4.3                             | P4KE68       | P4KE68C   |
| P4KE68A                           | P4KE68CA  | 58.1                          | 64.6                             | 71.4 | 1              | 1                                 | 1  | 92                               | 4.6                             | P4KE68A      | P4KE68CA  |
| P4KE75                            | P4KE75C   | 60.7                          | 67.5                             | 82.5 | 1              | 1                                 | 1  | 108                              | 3.9                             | P4KE75       | P4KE75C   |
| P4KE75A                           | P4KE75CA  | 64.1                          | 71.3                             | 78.8 | 1              | 1                                 | 1  | 103                              | 4.1                             | P4KE75A      | P4KE75CA  |
| P4KE82                            | P4KE82C   | 66.4                          | 73.8                             | 90.2 | 1              | 1                                 | 1  | 118                              | 3.6                             | P4KE82       | P4KE82C   |
| P4KE82A                           | P4KE82CA  | 70.1                          | 77.9                             | 86.1 | 1              | 1                                 | 1  | 113                              | 3.7                             | P4KE82A      | P4KE82CA  |
| P4KE91                            | P4KE91C   | 73.7                          | 81.9                             | 100  | 1              | 1                                 | 1  | 131                              | 3.2                             | P4KE91       | P4KE91C   |
| P4KE91A                           | P4KE91CA  | 77.8                          | 86.5                             | 95.5 | 1              | 1                                 | 1  | 125                              | 3.4                             | P4KE91A      | P4KE91CA  |
| P4KE100                           | P4KE100C  | 81                            | 90                               | 110  | 1              | 1                                 | 1  | 144                              | 2.9                             | P4KE100      | P4KE100C  |
| P4KE100A                          | P4KE100CA | 85.5                          | 95                               | 105  | 1              | 1                                 | 1  | 137                              | 3.1                             | P4KE100A     | P4KE100CA |
| P4KE110                           | P4KE110C  | 89.2                          | 99                               | 121  | 1              | 1                                 | 1  | 158                              | 2.7                             | P4KE110      | P4KE110C  |
| P4KE110A                          | P4KE110CA | 94                            | 105                              | 116  | 1              | 1                                 | 1  | 152                              | 2.8                             | P4KE110A     | P4KE110CA |
| P4KE120                           | P4KE120C  | 97.2                          | 108                              | 132  | 1              | 1                                 | 1  | 173                              | 2.4                             | P4KE120      | P4KE120C  |
| P4KE120A                          | P4KE120CA | 102                           | 114                              | 126  | 1              | 1                                 | 1  | 165                              | 2.5                             | P4KE120A     | P4KE120CA |
| P4KE130                           | P4KE130C  | 105                           | 117                              | 143  | 1              | 1                                 | 1  | 187                              | 2.2                             | P4KE130      | P4KE130C  |
| P4KE130A                          | P4KE130CA | 111                           | 124                              | 137  | 1              | 1                                 | 1  | 179                              | 2.3                             | P4KE130A     | P4KE130CA |
| P4KE150                           | P4KE150C  | 121                           | 135                              | 165  | 1              | 1                                 | 1  | 215                              | 2                               | P4KE150      | P4KE150C  |
| P4KE150A                          | P4KE150CA | 128                           | 143                              | 158  | 1              | 1                                 | 1  | 207                              | 2                               | P4KE150A     | P4KE150CA |
| P4KE160                           | P4KE160C  | 130                           | 144                              | 176  | 1              | 1                                 | 1  | 230                              | 1.8                             | P4KE160      | P4KE160C  |
| P4KE160A                          | P4KE160CA | 136                           | 152                              | 168  | 1              | 1                                 | 1  | 219                              | 1.9                             | P4KE160A     | P4KE160CA |
| P4KE170                           | P4KE170C  | 138                           | 153                              | 187  | 1              | 1                                 | 1  | 244                              | 1.7                             | P4KE170      | P4KE170C  |
| P4KE170A                          | P4KE170CA | 145                           | 162                              | 179  | 1              | 1                                 | 1  | 234                              | 1.8                             | P4KE170A     | P4KE170CA |
| P4KE180                           | P4KE180C  | 146                           | 162                              | 198  | 1              | 1                                 | 1  | 258                              | 1.6                             | P4KE180      | P4KE180C  |
| P4KE180A                          | P4KE180CA | 154                           | 171                              | 189  | 1              | 1                                 | 1  | 246                              | 1.7                             | P4KE180A     | P4KE180CA |
| P4KE200                           | P4KE200C  | 162                           | 180                              | 220  | 1              | 1                                 | 1  | 287                              | 1.5                             | P4KE200      | P4KE200C  |
| P4KE200A                          | P4KE200CA | 171                           | 190                              | 210  | 1              | 1                                 | 1  | 274                              | 1.5                             | P4KE200A     | P4KE200CA |
| P4KE220                           | P4KE220C  | 175                           | 198                              | 242  | 1              | 1                                 | 1  | 344                              | 1.2                             | P4KE220      | P4KE220C  |
| P4KE220A                          | P4KE220CA | 185                           | 209                              | 231  | 1              | 1                                 | 1  | 328                              | 1.2                             | P4KE220A     | P4KE220CA |
| P4KE250                           | P4KE250C  | 202                           | 225                              | 275  | 1              | 1                                 | 1  | 360                              | 1.1                             | P4KE250      | P4KE250C  |
| P4KE250A                          | P4KE250CA | 214                           | 237                              | 263  | 1              | 1                                 | 1  | 344                              | 1.2                             | P4KE250A     | P4KE250CA |
| P4KE300                           | P4KE300C  | 243                           | 270                              | 330  | 1              | 1                                 | 1  | 430                              | 0.9                             | P4KE300      | P4KE300C  |
| P4KE300A                          | P4KE300CA | 256                           | 285                              | 315  | 1              | 1                                 | 1  | 414                              | 1                               | P4KE300A     | P4KE300CA |
| P4KE350                           | P4KE350C  | 284                           | 315                              | 385  | 1              | 1                                 | 1  | 504                              | 0.8                             | P4KE350      | P4KE350C  |
| P4KE350A                          | P4KE350CA | 300                           | 332                              | 368  | 1              | 1                                 | 1  | 482                              | 0.8                             | P4KE350A     | P4KE350CA |
| P4KE400                           | P4KE400C  | 324                           | 360                              | 440  | 1              | 1                                 | 1  | 574                              | 0.7                             | P4KE400      | P4KE400C  |
| P4KE400A                          | P4KE400CA | 342                           | 380                              | 420  | 1              | 1                                 | 1  | 548                              | 0.7                             | P4KE400A     | P4KE400CA |
| P4KE440                           | P4KE440C  | 356                           | 396                              | 484  | 1              | 1                                 | 1  | 631                              | 0.7                             | P4KE440      | P4KE440C  |
| P4KE440A                          | P4KE440CA | 376                           | 418                              | 462  | 1              | 1                                 | 1  | 600                              | 0.7                             | P4KE440A     | P4KE440CA |

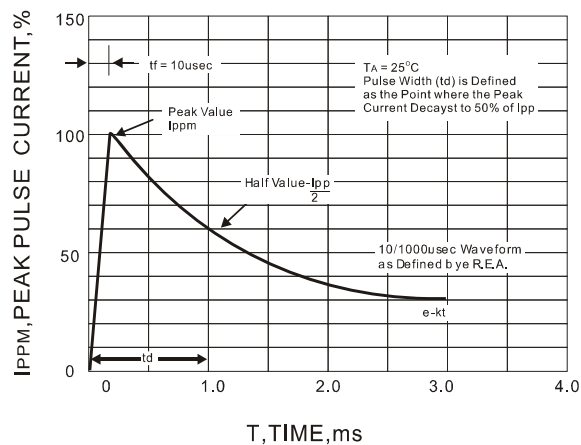
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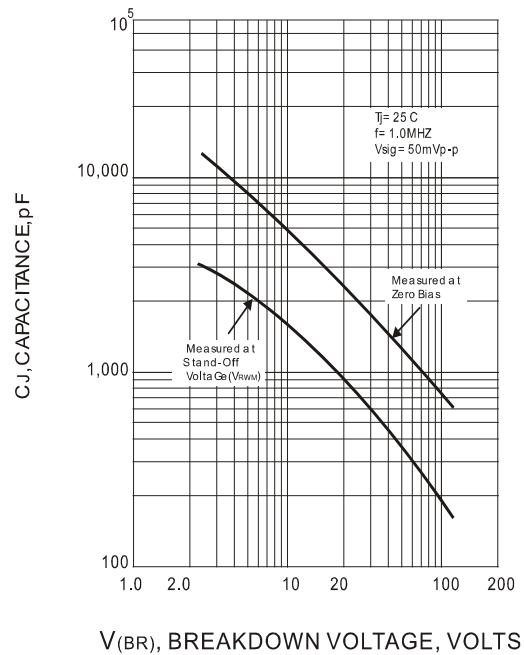
**Fig.1 PEAK PULSE POWER RATING PULSE TIME CURVE**



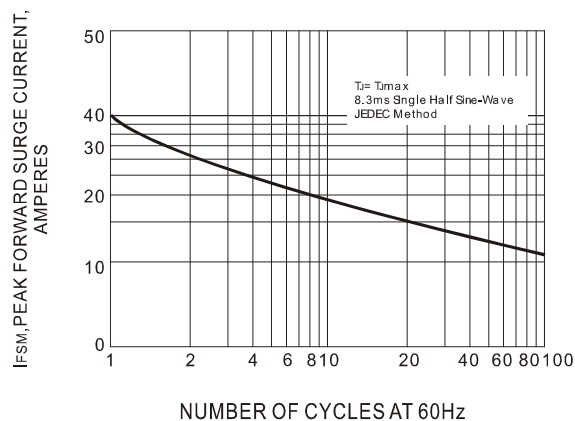
**Fig.2 PULSE DERATING CURVE**



**Fig.3 PULSE WAVEFORM**



**Fig.4 TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL**



**Fig.5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**

## P4KE SERIES

### Part No\_packing code\_Version

P4KE6.8\_AY\_00001

P4KE6.8\_AY\_10001

P4KE6.8\_B0\_00001

P4KE6.8\_B0\_10001

P4KE6.8\_R2\_00001

P4KE6.8\_R2\_10001

For example :

RB500V-40\_R2\_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| Packing Code XX                      |                      |                                  |                      | Version Code XXXXX |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS         | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                 | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS               | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                    |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                    |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                    |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                    |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                    |                      |                                       |



## P4KE SERIES

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