

## P6KE-G Series

**Stand-off Voltage: 6.8 ~ 600V**

**Power Dissipation: 600 Watts**

**RoHS Device**

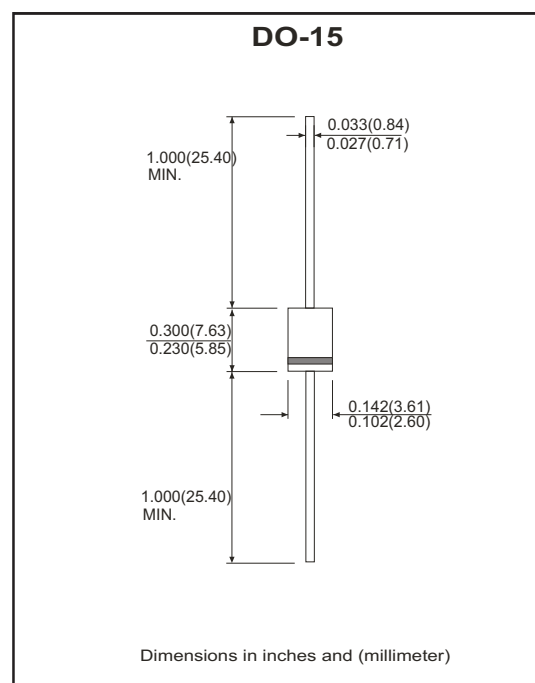


### Features

- Plastic package has underwriters laboratory flammability classification 94V-0
- 600W, surge capability at 1mS.
- Excellent clamping capability.
- Low Zener impedance.
- Fast response time: typically less than 1.0pS from 0 volt to BV min.
- Typical  $I_R$  less than 1 $\mu$ A above 10V.

### Mechanical Data

- Epoxy: UL 94V-0 rate flame retardant
- Case: Molded plastic DO-15
- Terminals: Axial leads solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes positive end (cathode)
- Weight: 0.4 grams



### Maximum Ratings and Electrical Characteristics

| Parameter                                                                                           | Symbol                            | Value          | Unit |
|-----------------------------------------------------------------------------------------------------|-----------------------------------|----------------|------|
| Peak power dissipation with a 10/1000 $\mu$ s waveform (Note 1)                                     | P <sub>PP</sub>                   | 600            | W    |
| Peak pulse current with a 10/1000 $\mu$ s waveform (Note 1)                                         | I <sub>PP</sub>                   | See Next Table | A    |
| Power dissipation on infinite heatsink at T <sub>L</sub> =75°C                                      | P <sub>D</sub>                    | 5.0            | W    |
| Peak forward surge current, 8.3ms single half sine-wave unidirectional only (JEDEC method) (Note 2) | I <sub>FSM</sub>                  | 100            | A    |
| Maximum instantaneous forward voltage at 50 A for unidirectional only (Note 3)                      | V <sub>F</sub>                    | 3.5/5.0        | V    |
| Operating junction and storage temperature range                                                    | T <sub>J</sub> , T <sub>STG</sub> | -55 to +150    | °C   |

NTOES:

(1) Non-repetitive current pulse, per fig.5 and derated above T<sub>A</sub>=25 °C per fig. 1

(2) Measured on 8.3ms single half sine-wave or equivalent square wave, square wave, duty cycle=4 pulses per minute maximum

(3) V<sub>F</sub><3.5V for devices of V<sub>BR</sub><200V and V<sub>F</sub><5.0V for devices of V<sub>BR</sub>>201V

# 600W Transient Voltage Suppressor

## RATING AND CHARACTERISTIC (P6KE-G Series)

| Part No.   |             | Absolute Maximum Rating (Ta=25 °C) |                      |                      |                |                  | Electrical Characteristics (Ta=25 °C) |                      |                                       | Marking Code. |           |
|------------|-------------|------------------------------------|----------------------|----------------------|----------------|------------------|---------------------------------------|----------------------|---------------------------------------|---------------|-----------|
| Uni        | Bi          | V <sub>RWM</sub>                   | V <sub>BR</sub> Min. | V <sub>BR</sub> Max. | I <sub>T</sub> | I <sub>FSM</sub> | Max. Vc @I <sub>PPM</sub>             |                      | Max. I <sub>R</sub> @V <sub>RWM</sub> | Uni           | Bi        |
|            |             | (V)                                | (V)                  | (V)                  | (mA)           | (A)@8.3ms        | (V)                                   | I <sub>PPM</sub> (A) | uA                                    |               |           |
| P6KE6.8-G  | P6KE6.8C-G  | 5.5                                | 6.12                 | 7.48                 | 10             | 100              | 10.8                                  | 55.56                | 1000                                  | P6KE6.8       | P6KE6.8C  |
| P6KE6.8A-G | P6KE6.8CA-G | 5.8                                | 6.45                 | 7.14                 | 10             | 100              | 10.5                                  | 57.14                | 1000                                  | P6KE6.8A      | P6KE6.8CA |
| P6KE7.5-G  | P6KE7.5C-G  | 6.1                                | 6.75                 | 8.25                 | 10             | 100              | 11.7                                  | 51.28                | 500                                   | P6KE7.5       | P6KE7.5C  |
| P6KE7.5A-G | P6KE7.5CA-G | 6.4                                | 7.13                 | 7.88                 | 10             | 100              | 11.3                                  | 53.10                | 500                                   | P6KE7.5A      | P6KE7.5CA |
| P6KE8.2-G  | P6KE8.2C-G  | 6.6                                | 7.38                 | 9.02                 | 10             | 100              | 12.5                                  | 48.00                | 200                                   | P6KE8.2       | P6KE8.2C  |
| P6KE8.2A-G | P6KE8.2CA-G | 7.0                                | 7.79                 | 8.61                 | 10             | 100              | 12.1                                  | 49.59                | 200                                   | P6KE8.2A      | P6KE8.2CA |
| P6KE9.1-G  | P6KE9.1C-G  | 7.4                                | 8.19                 | 10.01                | 1.0            | 100              | 13.8                                  | 43.48                | 50                                    | P6KE9.1       | P6KE9.1C  |
| P6KE9.1A-G | P6KE9.1CA-G | 7.8                                | 8.65                 | 9.56                 | 1.0            | 100              | 13.4                                  | 44.78                | 50                                    | P6KE9.1A      | P6KE9.1CA |
| P6KE10-G   | P6KE10C-G   | 8.1                                | 9.00                 | 11.00                | 1.0            | 100              | 15.0                                  | 40.00                | 10                                    | P6KE10        | P6KE10C   |
| P6KE10A-G  | P6KE10CA-G  | 8.6                                | 9.50                 | 10.50                | 1.0            | 100              | 14.5                                  | 41.38                | 10                                    | P6KE10A       | P6KE10CA  |
| P6KE11-G   | P6KE11C-G   | 8.9                                | 9.90                 | 12.10                | 1.0            | 100              | 16.2                                  | 37.04                | 5                                     | P6KE11        | P6KE11C   |
| P6KE11A-G  | P6KE11CA-G  | 9.4                                | 10.45                | 11.55                | 1.0            | 100              | 15.6                                  | 38.46                | 5                                     | P6KE11A       | P6KE11CA  |
| P6KE12-G   | P6KE12C-G   | 9.7                                | 10.80                | 13.20                | 1.0            | 100              | 17.3                                  | 34.68                | 5                                     | P6KE12        | P4KE12C   |
| P6KE12A-G  | P6KE12CA-G  | 10.2                               | 11.40                | 12.60                | 1.0            | 100              | 16.7                                  | 35.93                | 5                                     | P6KE12A       | P6KE12CA  |
| P6KE13-G   | P6KE13C-G   | 10.5                               | 11.70                | 14.30                | 1.0            | 100              | 19.0                                  | 31.58                | 5                                     | P6KE13        | P6KE13C   |
| P6KE13A-G  | P6KE13CA-G  | 11.1                               | 12.35                | 13.65                | 1.0            | 100              | 18.2                                  | 32.97                | 5                                     | P6KE13A       | P6KE13CA  |
| P6KE15-G   | P6KE15C-G   | 12.1                               | 13.50                | 16.50                | 1.0            | 100              | 22.0                                  | 27.27                | 5                                     | P6KE15        | P6KE15C   |
| P6KE15A-G  | P6KE15CA-G  | 12.8                               | 14.25                | 15.75                | 1.0            | 100              | 21.2                                  | 28.30                | 5                                     | P6KE15A       | P6KE15CA  |
| P6KE16-G   | P6KE16C-G   | 12.9                               | 14.40                | 17.60                | 1.0            | 100              | 23.5                                  | 25.53                | 5                                     | P6KE16        | P6KE16C   |
| P6KE16A-G  | P6KE16CA-G  | 13.6                               | 15.20                | 16.80                | 1.0            | 100              | 22.5                                  | 26.67                | 5                                     | P6KE16A       | P6KE16CA  |
| P6KE18-G   | P6KE18C-G   | 14.5                               | 16.20                | 19.80                | 1.0            | 100              | 26.5                                  | 22.64                | 5                                     | P6KE18        | P6KE18C   |
| P6KE18A-G  | P6KE18CA-G  | 15.3                               | 17.10                | 18.90                | 1.0            | 100              | 25.2                                  | 23.81                | 5                                     | P6KE18A       | P6KE18CA  |
| P6KE20-G   | P6KE20C-G   | 16.2                               | 18.00                | 22.00                | 1.0            | 100              | 29.1                                  | 20.62                | 5                                     | P6KE20        | P6KE20C   |
| P6KE20A-G  | P6KE20CA-G  | 17.1                               | 19.00                | 21.00                | 1.0            | 100              | 27.7                                  | 21.66                | 5                                     | P6KE20A       | P6KE20CA  |
| P6KE22-G   | P6KE22C-G   | 17.8                               | 19.80                | 24.20                | 1.0            | 100              | 31.9                                  | 18.81                | 5                                     | P6KE22        | P6KE22C   |
| P6KE22A-G  | P6KE22CA-G  | 18.8                               | 20.90                | 23.10                | 1.0            | 100              | 30.6                                  | 19.61                | 5                                     | P6KE22A       | P6KE22CA  |
| P6KE24-G   | P6KE24C-G   | 19.4                               | 21.60                | 26.40                | 1.0            | 100              | 34.7                                  | 17.29                | 5                                     | P6KE24        | P6KE24C   |
| P6KE24A-G  | P6KE24CA-G  | 20.5                               | 22.80                | 25.20                | 1.0            | 100              | 33.2                                  | 18.07                | 5                                     | P6KE24A       | P6KE24CA  |
| P6KE27-G   | P6KE27C-G   | 21.8                               | 24.30                | 29.70                | 1.0            | 100              | 39.1                                  | 15.35                | 5                                     | P6KE27        | P6KE27C   |
| P6KE27A-G  | P6KE27CA-G  | 23.1                               | 25.65                | 28.35                | 1.0            | 100              | 37.5                                  | 16.00                | 5                                     | P6KE27A       | P6KE27CA  |
| P6KE30-G   | P6KE30C-G   | 24.3                               | 27.00                | 33.00                | 1.0            | 100              | 43.5                                  | 13.79                | 5                                     | P6KE30        | P6KE30C   |
| P6KE30A-G  | P6KE30CA-G  | 25.6                               | 28.50                | 31.50                | 1.0            | 100              | 41.4                                  | 14.49                | 5                                     | P6KE30A       | P6KE30CA  |
| P6KE33-G   | P6KE33C-G   | 26.8                               | 29.70                | 36.30                | 1.0            | 100              | 47.7                                  | 12.58                | 5                                     | P6KE33        | P6KE33C   |
| P6KE33A-G  | P6KE33CA-G  | 28.2                               | 31.35                | 34.65                | 1.0            | 100              | 45.7                                  | 13.13                | 5                                     | P6KE33A       | P6KE33CA  |
| P6KE36-G   | P6KE36C-G   | 29.1                               | 32.40                | 39.60                | 1.0            | 100              | 52.0                                  | 11.54                | 5                                     | P6KE36        | P6KE36C   |
| P6KE36A-G  | P6KE36CA-G  | 30.8                               | 34.20                | 37.80                | 1.0            | 100              | 49.9                                  | 12.02                | 5                                     | P6KE36A       | P6KE36CA  |
| P6KE39-G   | P6KE39C-G   | 31.6                               | 35.10                | 42.90                | 1.0            | 100              | 56.4                                  | 10.64                | 5                                     | P6KE39        | P6KE39C   |
| P6KE39A-G  | P6KE39CA-G  | 33.3                               | 37.05                | 40.95                | 1.0            | 100              | 53.9                                  | 11.13                | 5                                     | P6KE39A       | P6KE39CA  |
| P6KE43-G   | P6KE43C-G   | 34.8                               | 38.70                | 47.30                | 1.0            | 100              | 61.9                                  | 9.69                 | 5                                     | P6KE43        | P6KE43C   |
| P6KE43A-G  | P6KE43CA-G  | 36.8                               | 40.85                | 45.15                | 1.0            | 100              | 59.3                                  | 10.12                | 5                                     | P6KE43A       | P6KE43CA  |
| P6KE47-G   | P6KE47C-G   | 38.1                               | 42.30                | 51.70                | 1.0            | 100              | 67.8                                  | 8.85                 | 5                                     | P6KE47        | P6KE47C   |
| P6KE47A-G  | P6KE47CA-G  | 40.2                               | 44.65                | 49.35                | 1.0            | 100              | 64.8                                  | 9.26                 | 5                                     | P6KE47A       | P6KE47CA  |
| P6KE51-G   | P6KE51C-G   | 41.3                               | 45.90                | 56.10                | 1.0            | 100              | 73.5                                  | 8.16                 | 5                                     | P6KE51        | P6KE51C   |
| P6KE51A-G  | P6KE51CA-G  | 43.6                               | 48.45                | 53.55                | 1.0            | 100              | 70.1                                  | 8.56                 | 5                                     | P6KE51A       | P6KE51CA  |

## RATING AND CHARACTERISTIC (P6KE-G Series)

| Part No.   |             | Absolute Maximum Rating (Ta=25 °C) |                      |                      |                |                  | Electrical Characteristics (Ta=25 °C) |                      |                                       | Marking Code. |           |
|------------|-------------|------------------------------------|----------------------|----------------------|----------------|------------------|---------------------------------------|----------------------|---------------------------------------|---------------|-----------|
| Uni        | Bi          | V <sub>RWM</sub>                   | V <sub>BR</sub> Min. | V <sub>BR</sub> Max. | I <sub>T</sub> | I <sub>FSM</sub> | Max. Vc @I <sub>PPM</sub>             |                      | Max. I <sub>R</sub> @V <sub>RWM</sub> | Uni           | Bi        |
|            |             | (V)                                | (V)                  | (V)                  | (mA)           | (A)@8.3ms        | (V)                                   | I <sub>PPM</sub> (A) | uA                                    |               |           |
| P6KE56-G   | P6KE56C-G   | 45.4                               | 50.40                | 61.60                | 1.0            | 100              | 80.5                                  | 7.45                 | 5                                     | P6KE56        | P6KE56C   |
| P6KE56A-G  | P6KE56CA-G  | 47.8                               | 53.20                | 58.80                | 1.0            | 100              | 77.0                                  | 7.79                 | 5                                     | P6KE56A       | P6KE56CA  |
| P6KE62-G   | P6KE62C-G   | 50.2                               | 55.80                | 68.20                | 1.0            | 100              | 89.0                                  | 6.74                 | 5                                     | P6KE62        | P6KE62C   |
| P6KE62A-G  | P6KE62CA-G  | 53.0                               | 58.90                | 65.10                | 1.0            | 100              | 85.0                                  | 7.06                 | 5                                     | P6KE62A       | P6KE62CA  |
| P6KE68-G   | P6KE68C-G   | 55.1                               | 61.20                | 74.80                | 1.0            | 100              | 98.0                                  | 6.12                 | 5                                     | P6KE68        | P6KE68C   |
| P6KE68A-G  | P6KE68CA-G  | 58.1                               | 64.60                | 71.40                | 1.0            | 100              | 92.0                                  | 6.52                 | 5                                     | P6KE68A       | P6KE68CA  |
| P6KE75-G   | P6KE75C-G   | 60.7                               | 67.50                | 82.50                | 1.0            | 100              | 108.0                                 | 5.56                 | 5                                     | P6KE75        | P6KE75C   |
| P6KE75A-G  | P6KE75CA-G  | 64.1                               | 71.25                | 78.75                | 1.0            | 100              | 103.0                                 | 5.83                 | 5                                     | P6KE75A       | P6KE75CA  |
| P6KE82-G   | P6KE82C-G   | 66.4                               | 73.80                | 90.20                | 1.0            | 100              | 118.0                                 | 5.08                 | 5                                     | P6KE82        | P6KE82C   |
| P6KE82A-G  | P6KE82CA-G  | 70.1                               | 77.90                | 86.10                | 1.0            | 100              | 113.0                                 | 5.31                 | 5                                     | P6KE82A       | P6KE82CA  |
| P6KE91-G   | P6KE91C-G   | 73.7                               | 81.90                | 100.10               | 1.0            | 100              | 131.0                                 | 4.58                 | 5                                     | P6KE91        | P6KE91C   |
| P6KE91A-G  | P6KE91CA-G  | 77.8                               | 86.45                | 95.55                | 1.0            | 100              | 125.0                                 | 4.80                 | 5                                     | P6KE91A       | P6KE91CA  |
| P6KE100-G  | P6KE100C-G  | 81.0                               | 90.00                | 110.00               | 1.0            | 100              | 144.0                                 | 4.17                 | 5                                     | P6KE100       | P4KE100C  |
| P6KE100A-G | P6KE100CA-G | 85.5                               | 95.00                | 105.00               | 1.0            | 100              | 137.0                                 | 4.38                 | 5                                     | P6KE100A      | P6KE100CA |
| P6KE110-G  | P6KE110C-G  | 89.2                               | 99.00                | 121.00               | 1.0            | 100              | 158.0                                 | 3.80                 | 5                                     | P6KE110       | P6KE110C  |
| P6KE110A-G | P6KE110CA-G | 96.0                               | 104.50               | 115.50               | 1.0            | 100              | 152.0                                 | 3.95                 | 5                                     | P6KE110A      | P6KE110CA |
| P6KE120-G  | P6KE120C-G  | 97.2                               | 108.00               | 132.00               | 1.0            | 100              | 173.0                                 | 3.47                 | 5                                     | P6KE120       | P6KE120C  |
| P6KE120A-G | P6KE120CA-G | 102.0                              | 114.00               | 126.00               | 1.0            | 100              | 165.0                                 | 3.64                 | 5                                     | P6KE120A      | P6KE120CA |
| P6KE130-G  | P6KE130C-G  | 105.0                              | 117.00               | 143.00               | 1.0            | 100              | 187.0                                 | 3.21                 | 5                                     | P6KE130       | P6KE130C  |
| P6KE130A-G | P6KE130CA-G | 111.0                              | 123.50               | 136.50               | 1.0            | 100              | 179.0                                 | 3.35                 | 5                                     | P6KE130A      | P6KE130CA |
| P6KE150-G  | P6KE150C-G  | 121.0                              | 135.00               | 165.00               | 1.0            | 100              | 215.0                                 | 2.79                 | 5                                     | P6KE150       | P6KE150C  |
| P6KE150A-G | P6KE150CA-G | 128.0                              | 142.50               | 157.50               | 1.0            | 100              | 207.0                                 | 2.90                 | 5                                     | P6KE150A      | P6KE150CA |
| P6KE160-G  | P6KE160C-G  | 130.0                              | 144.00               | 176.00               | 1.0            | 100              | 230.0                                 | 2.61                 | 5                                     | P6KE160       | P6KE160C  |
| P6KE160A-G | P6KE160CA-G | 136.0                              | 152.00               | 168.00               | 1.0            | 100              | 219.0                                 | 2.74                 | 5                                     | P6KE160A      | P6KE160CA |
| P6KE170-G  | P6KE170C-G  | 138.0                              | 153.00               | 187.00               | 1.0            | 100              | 244.0                                 | 2.46                 | 5                                     | P6KE170       | P6KE170C  |
| P6KE170A-G | P6KE170CA-G | 145.0                              | 161.50               | 178.50               | 1.0            | 100              | 234.0                                 | 2.56                 | 5                                     | P6KE170A      | P6KE170CA |
| P6KE180-G  | P6KE180C-G  | 146.0                              | 162.00               | 198.00               | 1.0            | 100              | 258.0                                 | 2.33                 | 5                                     | P6KE180       | P6KE180C  |
| P6KE180A-G | P6KE180CA-G | 154.0                              | 171.00               | 289.00               | 1.0            | 100              | 246.0                                 | 2.44                 | 5                                     | P6KE180A      | P6KE180CA |
| P6KE200-G  | P6KE200C-G  | 162.0                              | 180.00               | 220.00               | 1.0            | 100              | 287.0                                 | 2.09                 | 5                                     | P6KE200       | P6KE200C  |
| P6KE200A-G | P6KE200CA-G | 171.0                              | 190.00               | 210.00               | 1.0            | 100              | 274.0                                 | 2.19                 | 5                                     | P6KE200A      | P6KE200CA |
| P6KE220-G  | P6KE220C-G  | 175.0                              | 198.00               | 242.00               | 1.0            | 100              | 344.0                                 | 1.74                 | 5                                     | P6KE220       | P6KE220C  |
| P6KE220A-G | P6KE220CA-G | 185.0                              | 209.00               | 231.00               | 1.0            | 100              | 328.0                                 | 1.83                 | 5                                     | P6KE220A      | P6KE220CA |
| P6KE250-G  | P6KE250C-G  | 202.0                              | 225.00               | 275.00               | 1.0            | 100              | 360.0                                 | 1.67                 | 5                                     | P6KE250       | P6KE250C  |
| P6KE250A-G | P6KE250CA-G | 214.0                              | 237.50               | 262.50               | 1.0            | 100              | 344.0                                 | 1.74                 | 5                                     | P6KE250A      | P6KE250CA |
| P6KE300-G  | P6KE300C-G  | 243.0                              | 270.00               | 330.00               | 1.0            | 100              | 430.0                                 | 1.40                 | 5                                     | P6KE300       | P6KE300C  |
| P6KE300A-G | P6KE300CA-G | 256.0                              | 285.00               | 315.00               | 1.0            | 100              | 414.0                                 | 1.45                 | 5                                     | P6KE300A      | P6KE300CA |
| P6KE350-G  | P6KE350C-G  | 284.2                              | 315.00               | 385.00               | 1.0            | 100              | 504.0                                 | 1.19                 | 5                                     | P6KE350       | P6KE350C  |
| P6KE350A-G | P6KE350CA-G | 299.3                              | 332.50               | 367.50               | 1.0            | 100              | 482.0                                 | 1.24                 | 5                                     | P6KE350A      | P6KE350CA |
| P6KE380-G  | P6KE380C-G  | 208.6                              | 342.00               | 418.00               | 1.0            | 100              | 547.2                                 | 1.10                 | 5                                     | P6KE380       | P6KE380C  |
| P6KE380A-G | P6KE380CA-G | 324.9                              | 361.00               | 399.00               | 1.0            | 100              | 524.4                                 | 1.14                 | 5                                     | P6KE380A      | P6KE380CA |
| P6KE400-G  | P6KE400C-G  | 324.8                              | 360.00               | 440.00               | 1.0            | 100              | 574.0                                 | 1.05                 | 5                                     | P6KE400       | P6KE400C  |
| P6KE400A-G | P6KE400CA-G | 342.0                              | 380.00               | 420.00               | 1.0            | 100              | 548.0                                 | 1.09                 | 5                                     | P6KE400A      | P6KE400CA |
| P6KE440-G  | P6KE440C-G  | 357.3                              | 396.00               | 484.00               | 1.0            | 100              | 633.6                                 | 0.95                 | 5                                     | P6KE440       | P6KE440C  |
| P6KE440A-G | P6KE440CA-G | 376.2                              | 418.00               | 462.00               | 1.0            | 100              | 607.2                                 | 0.99                 | 5                                     | P6KE440A      | P6KE440CA |

## RATING AND CHARACTERISTIC (P6KE-G Series)

| Part No.   |             | Absolute Maximum Rating (Ta=25 °C) |                      |                      |                |                  | Electrical Characteristics (Ta=25 °C) |                      |                                       | Marking Code. |           |
|------------|-------------|------------------------------------|----------------------|----------------------|----------------|------------------|---------------------------------------|----------------------|---------------------------------------|---------------|-----------|
| Uni        | Bi          | V <sub>RWM</sub>                   | V <sub>BR</sub> Min. | V <sub>BR</sub> Max. | I <sub>T</sub> | I <sub>FSM</sub> | Max. V <sub>C</sub> @I <sub>PPM</sub> |                      | Max. I <sub>R</sub> @V <sub>RWM</sub> | Uni           | Bi        |
|            |             | ( V )                              | ( V )                | ( V )                | ( mA )         | (A)@8.3mS        | ( V )                                 | I <sub>PPM</sub> (A) | uA                                    |               |           |
| P6KE500-G  | P6KE500C-G  | 406.0                              | 450.00               | 550.00               | 1.0            | 100              | 720.0                                 | 0.83                 | 5                                     | P6KE500       | P6KE500C  |
| P6KE500A-G | P6KE500CA-G | 427.5                              | 475.00               | 525.00               | 1.0            | 100              | 690.0                                 | 0.87                 | 5                                     | P6KE500A      | P6KE500CA |
| P6KE520-G  | P6KE520C-G  | 422.2                              | 468.00               | 572.00               | 1.0            | 100              | 748.8                                 | 0.80                 | 5                                     | P6KE520       | P6KE520C  |
| P6KE520A-G | P6KE520CA-G | 444.6                              | 494.00               | 546.00               | 1.0            | 100              | 717.6                                 | 0.84                 | 5                                     | P6KE520A      | P6KE520CA |
| P6KE550-G  | P6KE550C-G  | 446.6                              | 495.00               | 605.00               | 1.0            | 100              | 792.0                                 | 0.76                 | 5                                     | P6KE550       | P6KE550C  |
| P6KE550A-G | P6KE550CA-G | 470.3                              | 522.50               | 577.50               | 1.0            | 100              | 759.0                                 | 0.79                 | 5                                     | P6KE550A      | P6KE550CA |
| P6KE600-G  | P6KE600C-G  | 487.2                              | 540.00               | 660.00               | 1.0            | 100              | 864.0                                 | 0.69                 | 5                                     | P6KE600       | P6KE600C  |
| P6KE600A-G | P6KE600CA-G | 513.0                              | 570.00               | 630.00               | 1.0            | 100              | 828.0                                 | 0.72                 | 5                                     | P6KE600A      | P6KE600CA |

## RATING AND CHARACTERISTIC CURVES (P6KE-G Series)

Fig.1 - Pulse Derating Curve

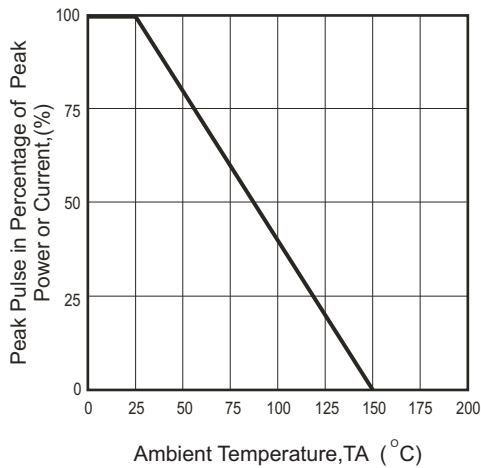


Fig.2 - Maximum Non-Repetitive Surge Current

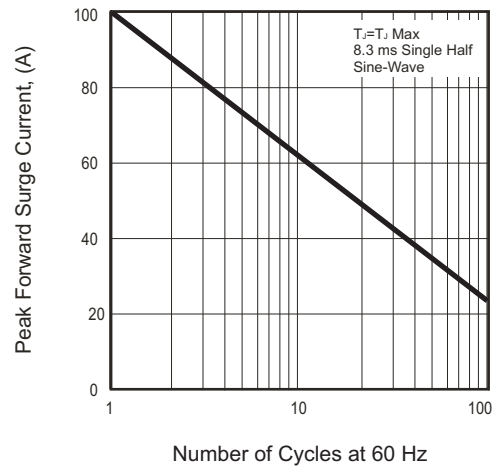


Fig.3 - Steady State Power Derating Curve

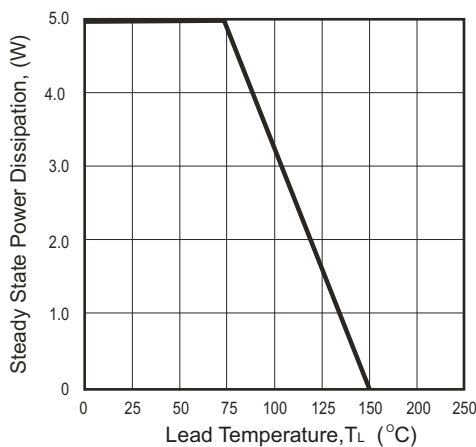


Fig.4 - Peak Pulse Power Rating Curve

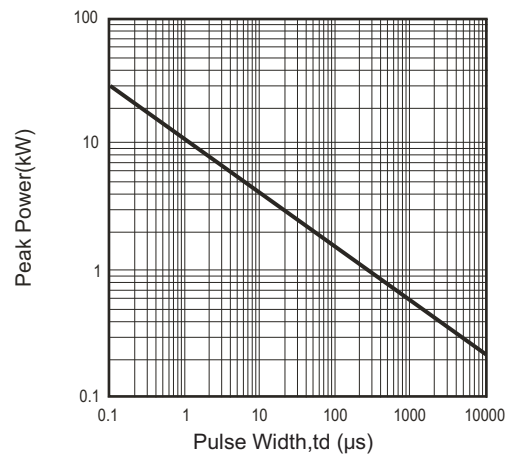


Fig.5 - Pulse Waveform

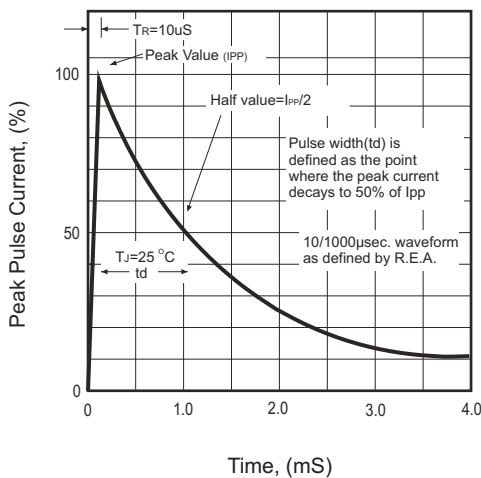
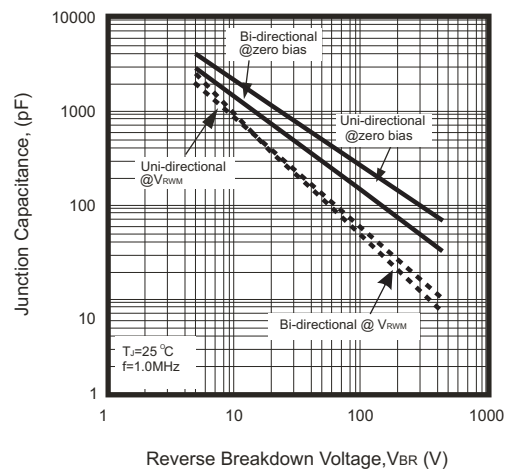
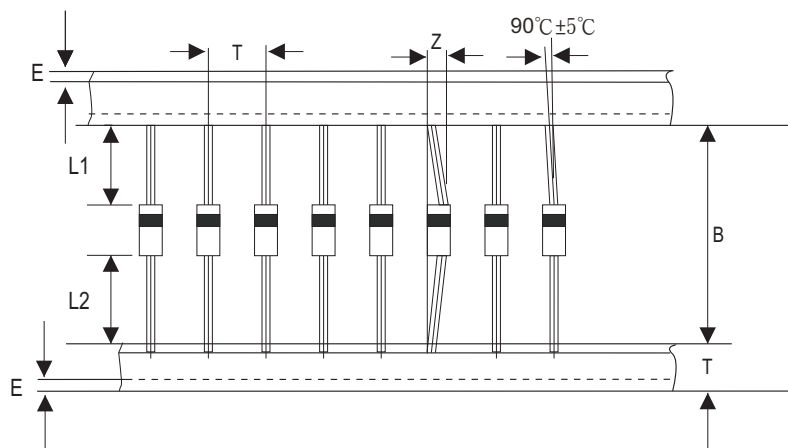


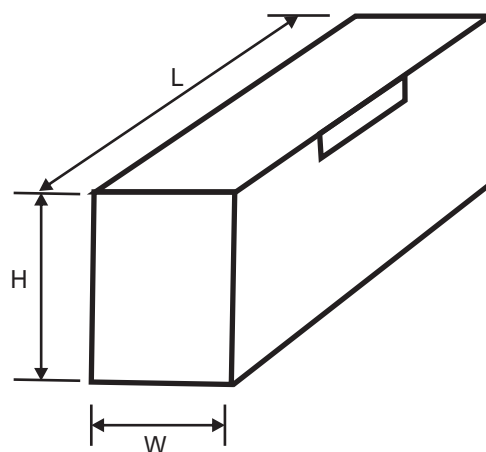
Fig.6 - Typical Junction Capacitance



## Taping Specification For Axial Lead Diodes



| DO-15 | SYMBOL | A                 | B                 | Z           | T                 | E           | L1-L2       |
|-------|--------|-------------------|-------------------|-------------|-------------------|-------------|-------------|
|       | (mm)   | $5.00 \pm 0.5$    | $52.0 \pm 0.5$    | 1.2 (max)   | $6.0 \pm 0.4$     | 3 (max)     | 1.0 (max)   |
|       | (inch) | $0.197 \pm 0.020$ | $2.047 \pm 0.020$ | 0.047 (max) | $0.236 \pm 0.016$ | 0.118 (max) | 0.039 (max) |



## Standard Packaging

| Case Type | BOX                         |               |                   |            |
|-----------|-----------------------------|---------------|-------------------|------------|
|           | Inner BOX Dimension (L*W*H) | Inner BOX (K) | Box / Carton (EA) | CARTON (K) |
| DO-15     | 252*80*117                  | 2             | 10                | 20         |
| DO-15     | 260*75*145                  | 3             | 10                | 30         |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Comchip Technology:

[P6KE250C-HF](#) [P6KE250-HF](#) [P6KE300C-HF](#) [P6KE300-HF](#) [P6KE350C-HF](#) [P6KE350-HF](#) [P6KE380C-HF](#)  
[P6KE380-HF](#) [P6KE400C-HF](#) [P6KE400-HF](#) [P6KE440C-HF](#) [P6KE440-HF](#) [P6KE500C-HF](#) [P6KE500-HF](#) [P6KE520C-](#)  
[HF](#) [P6KE520-HF](#) [P6KE550C-HF](#) [P6KE550-HF](#) [P6KE600C-HF](#) [P6KE600-HF](#)