



# 5KP SERIES

## GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 5000 Watt

**STAND-OFF VOLTAGE**

**5 to 220 Volt**

**P-600**

Unit : inch(mm)

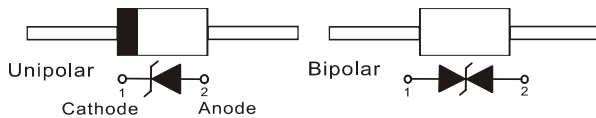
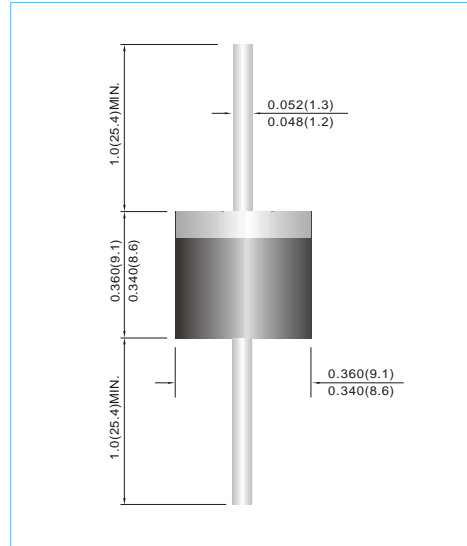
**Recongized File # E210467**

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 5000W Peak Pulse Power capability at on tp=10/1000µs waveform
- Excellent clamping capability
- Low zener impedance
- Repetition rate(Duty Cycle):.05%
- Fast response time: typically less than 1 ps from 0 volts to BV min
- ESD IEC-61000-4-2 Air ± 30kV, Contact ± 30kV
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- Case: JEDEC P-600 molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.072 ounce, 2.04 gram



### DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 5KP5.0 thru types 5KP220  
Electrical characteristics apply in both directions.

### MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

| Rating   | Symbol          | Value                | Units                       |
|--|-----------------|----------------------|-----------------------------|
| Peak Power Dissipation at $T_A=25^\circ\text{C}$ , $t_p=1\text{ms}$ (Notes 1)                | $P_{PP}$        | 5000                 | Watts                       |
| Typical Thermal Resistance Junction to Air Lead Lengths 0.375", (9.5mm) (Notes 2)            | $R_{\theta JA}$ | 10                   | $^\circ\text{C} / \text{W}$ |
| 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) | $I_{FSM}$       | 400                  | Amps                        |
| ESD IEC-61000-4-2 (Air)<br>ESD IEC-61000-4-2 (Contact)                                       | $V_{ESD}$       | $\pm 30$<br>$\pm 30$ | kV                          |
| Operating Junction and Storage Temperature Range   | $T_J, T_{STG}$  | -55 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  $0.79\text{in}^2(20\text{mm}^2)$ .
- 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.



# 5KP SERIES

| 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>BR</sub> @ I <sub>T</sub> |       |              | I <sub>R</sub> @ V <sub>RWM</sub> |       |                                 |                                 |              |          |
|                                    |          |                           | Min.                             | Max.  |              | UNI                               | BI    |                                 |                                 |              |          |
| UNI                                | BI       | V                         | V                                | V     | mA           | µA                                | µA    | V                               | A                               | UNI          | BI       |
| 5000W Transient Voltage Suppressor |          |                           |                                  |       |              |                                   |       |                                 |                                 |              |          |
| 5KP5.0                             | 5KP5.0C  | 5                         | 6.4                              | 7.55  | 50           | 5000                              | 10000 | 9.6                             | 520                             | 5KP5.0       | 5KP5.0C  |
| 5KP5.0A                            | 5KP5.0CA | 5                         | 6.4                              | 7.25  | 50           | 5000                              | 10000 | 9.2                             | 543                             | 5KP5.0A      | 5KP5.0CA |
| 5KP6.0                             | 5KP6.0C  | 6                         | 6.67                             | 8.45  | 50           | 5000                              | 10000 | 11.4                            | 439                             | 5KP6.0       | 5KP6.0C  |
| 5KP6.0A                            | 5KP6.0CA | 6                         | 6.67                             | 7.67  | 50           | 5000                              | 10000 | 10.3                            | 485                             | 5KP6.0A      | 5KP6.0CA |
| 5KP6.5                             | 5KP6.5C  | 6.5                       | 7.22                             | 9.14  | 50           | 2000                              | 4000  | 12.3                            | 407                             | 5KP6.5       | 5KP6.5C  |
| 5KP6.5A                            | 5KP6.5CA | 6.5                       | 7.22                             | 8.3   | 50           | 2000                              | 4000  | 11.2                            | 447                             | 5KP6.5A      | 5KP6.5CA |
| 5KP7.0                             | 5KP7.0C  | 7                         | 7.78                             | 9.86  | 50           | 1000                              | 2000  | 13.3                            | 378                             | 5KP7.0       | 5KP7.0C  |
| 5KP7.0A                            | 5KP7.0CA | 7                         | 7.78                             | 8.95  | 50           | 1000                              | 2000  | 12                              | 417                             | 5KP7.0A      | 5KP7.0CA |
| 5KP7.5                             | 5KP7.5C  | 7.5                       | 8.33                             | 10.67 | 5            | 250                               | 500   | 14.3                            | 350                             | 5KP7.5       | 5KP7.5C  |
| 5KP7.5A                            | 5KP7.5CA | 7.5                       | 8.33                             | 9.58  | 5            | 250                               | 500   | 12.9                            | 388                             | 5KP7.5A      | 5KP7.5CA |
| 5KP8.0                             | 5KP8.0C  | 8                         | 8.89                             | 11.3  | 5            | 150                               | 300   | 15                              | 333                             | 5KP8.0       | 5KP8.0C  |
| 5KP8.0A                            | 5KP8.0CA | 8                         | 8.89                             | 10.23 | 5            | 150                               | 300   | 13.6                            | 367                             | 5KP8.0A      | 5KP8.0CA |
| 5KP8.5                             | 5KP8.5C  | 8.5                       | 9.44                             | 11.92 | 5            | 50                                | 100   | 15.9                            | 314                             | 5KP8.5       | 5KP8.5C  |
| 5KP8.5A                            | 5KP8.5CA | 8.5                       | 9.44                             | 10.82 | 5            | 50                                | 100   | 14.4                            | 347                             | 5KP8.5A      | 5KP8.5CA |
| 5KP9.0                             | 5KP9.0C  | 9                         | 10                               | 12.6  | 5            | 20                                | 40    | 16.9                            | 295                             | 5KP9.0       | 5KP9.0C  |
| 5KP9.0A                            | 5KP9.0CA | 9                         | 10                               | 11.5  | 5            | 20                                | 40    | 15.4                            | 325                             | 5KP9.0A      | 5KP9.0CA |
| 5KP10                              | 5KP10C   | 10                        | 11.1                             | 14.1  | 5            | 6                                 | 6     | 18.8                            | 266                             | 5KP10        | 5KP10C   |
| 5KP10A                             | 5KP10CA  | 10                        | 11.1                             | 12.8  | 5            | 6                                 | 6     | 17                              | 294                             | 5KP10A       | 5KP10CA  |
| 5KP11                              | 5KP11C   | 11                        | 12.2                             | 15.4  | 5            | 6                                 | 6     | 20.1                            | 249                             | 5KP11        | 5KP11C   |
| 5KP11A                             | 5KP11CA  | 11                        | 12.2                             | 14    | 5            | 6                                 | 6     | 18.2                            | 274                             | 5KP11A       | 5KP11CA  |
| 5KP12                              | 5KP12C   | 12                        | 13.3                             | 16.9  | 5            | 6                                 | 6     | 22                              | 227                             | 5KP12        | 5KP12C   |
| 5KP12A                             | 5KP12CA  | 12                        | 13.3                             | 15.3  | 5            | 6                                 | 6     | 19.9                            | 251                             | 5KP12A       | 5KP12CA  |
| 5KP13                              | 5KP13C   | 13                        | 14.4                             | 18.2  | 5            | 6                                 | 6     | 23.8                            | 210                             | 5KP13        | 5KP13C   |
| 5KP13A                             | 5KP13CA  | 13                        | 14.4                             | 16.5  | 5            | 6                                 | 6     | 21.5                            | 232                             | 5KP13A       | 5KP13CA  |
| 5KP14                              | 5KP14C   | 14                        | 15.6                             | 19.8  | 5            | 6                                 | 6     | 25.8                            | 194                             | 5KP14        | 5KP14C   |
| 5KP14A                             | 5KP14CA  | 14                        | 15.6                             | 17.9  | 5            | 6                                 | 6     | 23.2                            | 215                             | 5KP14A       | 5KP14CA  |
| 5KP15                              | 5KP15C   | 15                        | 16.7                             | 21.1  | 5            | 6                                 | 6     | 26.9                            | 188                             | 5KP15        | 5KP15C   |
| 5KP15A                             | 5KP15CA  | 15                        | 16.7                             | 19.2  | 5            | 6                                 | 6     | 24.4                            | 206                             | 5KP15A       | 5KP15CA  |
| 5KP16                              | 5KP16C   | 16                        | 17.8                             | 22.6  | 5            | 6                                 | 6     | 28.8                            | 176                             | 5KP16        | 5KP16C   |
| 5KP16A                             | 5KP16CA  | 16                        | 17.8                             | 20.5  | 5            | 6                                 | 6     | 26                              | 192                             | 5KP16A       | 5KP16CA  |
| 5KPJ17                             | 5KPJ17C  | 17                        | 18.9                             | 23.9  | 5            | 6                                 | 6     | 30.5                            | 164                             | 5KPJ17       | 5KPJ17C  |
| 5KP17A                             | 5KP17CA  | 17                        | 18.9                             | 21.7  | 5            | 6                                 | 6     | 27.6                            | 181                             | 5KP17A       | 5KP17CA  |
| 5KP18                              | 5KP18C   | 18                        | 20                               | 25.3  | 5            | 6                                 | 6     | 32.2                            | 155                             | 5KP18        | 5KP18C   |
| 5KP18A                             | 5KP18CA  | 18                        | 20                               | 23.3  | 5            | 6                                 | 6     | 29.2                            | 172                             | 5KP18A       | 5KP18CA  |
| 5KP20                              | 5KP20C   | 20                        | 22.2                             | 28.1  | 5            | 6                                 | 6     | 35.8                            | 139                             | 5KP20        | 5KP20C   |
| 5KP20A                             | 5KP20CA  | 20                        | 22.2                             | 25.5  | 5            | 6                                 | 6     | 32.4                            | 154                             | 5KP20A       | 5KP20CA  |
| 5KP22                              | 5KP22C   | 22                        | 24.4                             | 30.9  | 5            | 6                                 | 6     | 39.4                            | 127                             | 5KP22        | 5KP22C   |
| 5KP22A                             | 5KP22CA  | 22                        | 24.4                             | 28    | 5            | 6                                 | 6     | 35.5                            | 141                             | 5KP22A       | 5KP22CA  |
| 5KP24                              | 5KP24C   | 24                        | 26.7                             | 33.8  | 5            | 6                                 | 6     | 43                              | 116                             | 5KP24        | 5KP24C   |
| 5KP24A                             | 5KP24CA  | 24                        | 26.7                             | 30.7  | 5            | 6                                 | 6     | 38.9                            | 128                             | 5KP24A       | 5KP24CA  |
| 5KP26                              | 5KP26C   | 26                        | 28.9                             | 36.6  | 5            | 6                                 | 6     | 46.6                            | 107                             | 5KP26        | 5KP26C   |
| 5KP26A                             | 5KP26CA  | 26                        | 28.9                             | 33.2  | 5            | 6                                 | 6     | 42.1                            | 119                             | 5KP26A       | 5KP26CA  |
| 5KP28                              | 5KP28C   | 28                        | 31.1                             | 39.4  | 5            | 6                                 | 6     | 50                              | 99                              | 5KP28        | 5KP28C   |
| 5KP28A                             | 5KP28CA  | 28                        | 31.1                             | 35.8  | 5            | 6                                 | 6     | 45.4                            | 110                             | 5KP28A       | 5KP28CA  |
| 5KP30                              | 5KP30C   | 30                        | 33.3                             | 42.2  | 5            | 6                                 | 6     | 53.5                            | 93                              | 5KP30        | 5KP30C   |
| 5KP30A                             | 5KP30CA  | 30                        | 33.3                             | 38.3  | 5            | 6                                 | 6     | 48.4                            | 103                             | 5KP30A       | 5KP30CA  |
| 5KP33                              | 5KP33C   | 33                        | 36.7                             | 46.5  | 5            | 6                                 | 6     | 59                              | 85                              | 5KP33        | 5KP33C   |
| 5KP33A                             | 5KP33CA  | 33                        | 36.7                             | 42.2  | 5            | 6                                 | 6     | 53.3                            | 94                              | 5KP33A       | 5KP33CA  |
| 5KP36                              | 5KP36C   | 36                        | 40                               | 50.7  | 5            | 6                                 | 6     | 64.3                            | 78                              | 5KP36        | 5KP36C   |
| 5KP36A                             | 5KP36CA  | 36                        | 40                               | 46    | 5            | 6                                 | 6     | 58.1                            | 85                              | 5KP36A       | 5KP36CA  |
| 5KP40                              | 5KP40C   | 40                        | 44.4                             | 56.3  | 5            | 6                                 | 6     | 71.4                            | 70                              | 5KP40        | 5KP40C   |

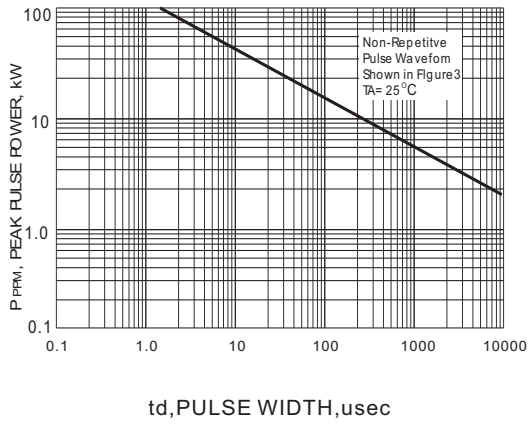


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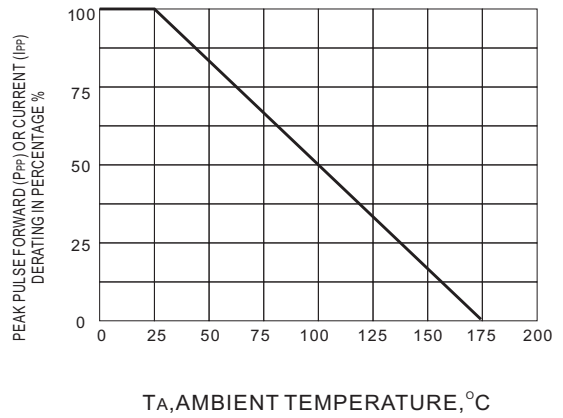
| Part Number                        |          | Reverse Stand-off Voltage  | Breakdown Voltage                |       | Test Current   | Reverse Leakage                   |    | Max. Clamp Voltage<br>10/1000µs  | Peak Pulse Current<br>10/1000µs | Marking Code |          |
|------------------------------------|----------|----------------------------|----------------------------------|-------|----------------|-----------------------------------|----|----------------------------------|---------------------------------|--------------|----------|
|                                    |          | V <sub>RWM</sub> (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       |
| 5000W Transient Voltage Suppressor |          |                            |                                  |       |                |                                   |    |                                  |                                 |              |          |
| 5KP40A                             | 5KP40CA  | 40                         | 44.4                             | 51.1  | 5              | 6                                 | 6  | 64.5                             | 78                              | 5KP40A       | 5KP40CA  |
| 5KP43                              | 5KP43C   | 43                         | 47.8                             | 60.5  | 5              | 6                                 | 6  | 76.7                             | 65                              | 5KP43        | 5KP43C   |
| 5KP43A                             | 5KP43CA  | 43                         | 47.8                             | 54.9  | 5              | 6                                 | 6  | 69.4                             | 72                              | 5KP43A       | 5KP43CA  |
| 5KP45                              | 5KP45C   | 45                         | 50                               | 63.3  | 5              | 6                                 | 6  | 80.3                             | 62                              | 5KP45        | 5KP45C   |
| 5KP45A                             | 5KP45CA  | 45                         | 50                               | 57.5  | 5              | 6                                 | 6  | 72.7                             | 69                              | 5KP45A       | 5KP45CA  |
| 5KP48                              | 5KP48C   | 48                         | 53.3                             | 67.5  | 5              | 6                                 | 6  | 85.5                             | 58                              | 5KP48        | 5KP48C   |
| 5KP48A                             | 5KP48CA  | 48                         | 53.3                             | 61.3  | 5              | 6                                 | 6  | 77.4                             | 65                              | 5KP48A       | 5KP48CA  |
| 5KP51                              | 5KP51C   | 51                         | 56.7                             | 71.8  | 5              | 6                                 | 6  | 91.1                             | 55                              | 5KP51        | 5KP51C   |
| 5KP51A                             | 5KP51CA  | 51                         | 56.7                             | 65.2  | 5              | 6                                 | 6  | 82.4                             | 61                              | 5KP51A       | 5KP51CA  |
| 5KP54                              | 5KP54C   | 54                         | 60                               | 76    | 5              | 6                                 | 6  | 96.3                             | 52                              | 5KP54        | 5KP54C   |
| 5KP54A                             | 5KP54CA  | 54                         | 60                               | 69    | 5              | 6                                 | 6  | 87.1                             | 57                              | 5KP54A       | 5KP54CA  |
| 5KP58                              | 5KP58C   | 58                         | 64.4                             | 81.6  | 5              | 6                                 | 6  | 103                              | 49                              | 5KP58        | 5KP58C   |
| 5KP58A                             | 5KP58CA  | 58                         | 64.4                             | 74.1  | 5              | 6                                 | 6  | 93.6                             | 53                              | 5KP58A       | 5KP58CA  |
| 5KP60                              | 5KP60C   | 60                         | 66.7                             | 84.5  | 5              | 6                                 | 6  | 107                              | 47                              | 5KP60        | 5KP60C   |
| 5KP60A                             | 5KP60CA  | 60                         | 66.7                             | 76.7  | 5              | 6                                 | 6  | 96.8                             | 52                              | 5KP60A       | 5KP60CA  |
| 5KP64                              | 5KP64C   | 64                         | 71.1                             | 90.1  | 5              | 6                                 | 6  | 114                              | 44                              | 5KP64        | 5KP64C   |
| 5KP64A                             | 5KP64CA  | 64                         | 71.1                             | 81.8  | 5              | 6                                 | 6  | 103                              | 49                              | 5KP64A       | 5KP64CA  |
| 5KP70                              | 5KP70C   | 70                         | 77.8                             | 98.6  | 5              | 6                                 | 6  | 125                              | 40                              | 5KP70        | 5KP70C   |
| 5KP70A                             | 5KP70CA  | 70                         | 77.8                             | 89.5  | 5              | 6                                 | 6  | 113                              | 44                              | 5KP70A       | 5KP70CA  |
| 5KP75                              | 5KP75C   | 75                         | 83.3                             | 105.7 | 5              | 6                                 | 6  | 134                              | 37                              | 5KP75        | 5KP75C   |
| 5KP75A                             | 5KP75CA  | 75                         | 83.3                             | 95.8  | 5              | 6                                 | 6  | 121                              | 41                              | 5KP75A       | 5KP75CA  |
| 5KP78                              | 5KP78C   | 78                         | 86.7                             | 109.8 | 5              | 6                                 | 6  | 139                              | 36                              | 5KP78        | 5KP78C   |
| 5KP78A                             | 5KP78CA  | 78                         | 86.7                             | 99.7  | 5              | 6                                 | 6  | 126                              | 40                              | 5KP78A       | 5KP78CA  |
| 5KP85                              | 5KP85C   | 85                         | 94.4                             | 119.2 | 5              | 6                                 | 6  | 151                              | 33                              | 5KP85        | 5KP85C   |
| 5KP85A                             | 5KP85CA  | 85                         | 94.4                             | 108.2 | 5              | 6                                 | 6  | 137                              | 36                              | 5KP85A       | 5KP85CA  |
| 5KP90                              | 5KP90C   | 90                         | 100                              | 126.5 | 5              | 6                                 | 6  | 160                              | 31                              | 5KP90        | 5KP90C   |
| 5KP90A                             | 5KP90CA  | 90                         | 100                              | 115.5 | 5              | 6                                 | 6  | 146                              | 34                              | 5KP90A       | 5KP90CA  |
| 5KP100                             | 5KP100C  | 100                        | 111                              | 141   | 5              | 6                                 | 6  | 179                              | 28                              | 5KP100       | 5KP100C  |
| 5KP100A                            | 5KP100CA | 100                        | 111                              | 128   | 5              | 6                                 | 6  | 162                              | 31                              | 5KP100A      | 5KP100CA |
| 5KP110                             | 5KP110C  | 110                        | 122                              | 154.5 | 5              | 6                                 | 6  | 196                              | 26                              | 5KP110       | 5KP110C  |
| 5KP110A                            | 5KP110CA | 110                        | 122                              | 140.5 | 5              | 6                                 | 6  | 177                              | 28                              | 5KP110A      | 5KP110CA |
| 5KP120                             | 5KP120C  | 120                        | 133                              | 169   | 5              | 6                                 | 6  | 214                              | 23                              | 5KP120       | 5KP120C  |
| 5KP120A                            | 5KP120CA | 120                        | 133                              | 153   | 5              | 6                                 | 6  | 193                              | 20                              | 5KP120A      | 5KP120CA |
| 5KP130                             | 5KP130C  | 130                        | 144                              | 182.5 | 5              | 6                                 | 6  | 231                              | 22                              | 5KP130       | 5KP130C  |
| 5KP130A                            | 5KP130CA | 130                        | 144                              | 165.5 | 5              | 6                                 | 6  | 209                              | 24                              | 5KP130A      | 5KP130CA |
| 5KP150                             | 5KP150C  | 150                        | 167                              | 211.5 | 5              | 6                                 | 6  | 268                              | 19                              | 5KP150       | 5KP150C  |
| 5KP150A                            | 5KP150CA | 150                        | 167                              | 192.5 | 5              | 6                                 | 6  | 243                              | 21                              | 5KP150A      | 5KP150CA |
| 5KP160                             | 5KP160C  | 160                        | 178                              | 226   | 5              | 6                                 | 6  | 287                              | 17                              | 5KP160       | 5KP160C  |
| 5KP160A                            | 5KP160CA | 160                        | 178                              | 205   | 5              | 6                                 | 6  | 259                              | 19                              | 5KP160A      | 5KP160CA |
| 5KP170                             | 5KP170C  | 170                        | 189                              | 239.5 | 5              | 6                                 | 6  | 304                              | 16                              | 5KP170       | 5KP170C  |
| 5KP170A                            | 5KP170CA | 170                        | 189                              | 217.5 | 5              | 6                                 | 6  | 275                              | 18                              | 5KP170A      | 5KP170CA |
| 5KP180                             | 5KP180C  | 180                        | 198                              | 253.8 | 1              | 3                                 | 3  | 322                              | 16                              | 5KP180       | 5KP180C  |
| 5KP180A                            | 5KP180CA | 180                        | 198                              | 230.4 | 1              | 3                                 | 3  | 292                              | 17                              | 5KP180A      | 5KP180CA |
| 5KP190                             | 5KP190C  | 190                        | 209                              | 267.9 | 1              | 3                                 | 3  | 340                              | 15                              | 5KP190       | 5KP190C  |
| 5KP190A                            | 5KP190CA | 190                        | 209                              | 243.2 | 1              | 3                                 | 3  | 308                              | 16                              | 5KP190A      | 5KP190CA |
| 5KP200                             | 5KP200C  | 200                        | 220                              | 282   | 1              | 3                                 | 3  | 358                              | 14                              | 5KP200       | 5KP200C  |
| 5KP200A                            | 5KP200CA | 200                        | 220                              | 256   | 1              | 3                                 | 3  | 324                              | 15                              | 5KP200A      | 5KP200CA |
| 5KP210                             | 5KP210C  | 210                        | 231                              | 296.1 | 1              | 3                                 | 3  | 376                              | 13                              | 5KP210       | 5KP210C  |
| 5KP210A                            | 5KP210CA | 210                        | 231                              | 268.8 | 1              | 3                                 | 3  | 340                              | 15                              | 5KP210A      | 5KP210CA |
| 5KP220                             | 5KP220C  | 220                        | 242                              | 310.2 | 1              | 3                                 | 3  | 394                              | 13                              | 5KP220       | 5KP220C  |
| 5KP220A                            | 5KP220CA | 220                        | 242                              | 282   | 1              | 3                                 | 3  | 356                              | 14                              | 5KP220A      | 5KP220CA |



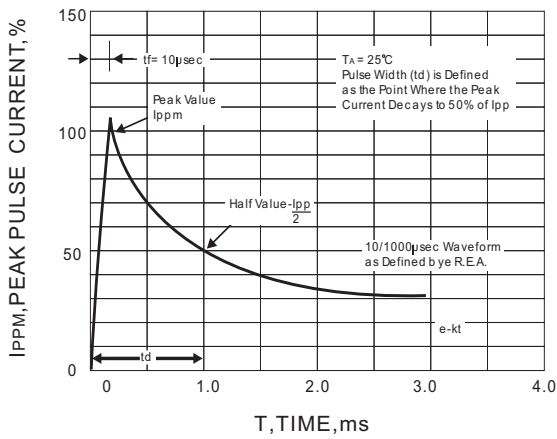
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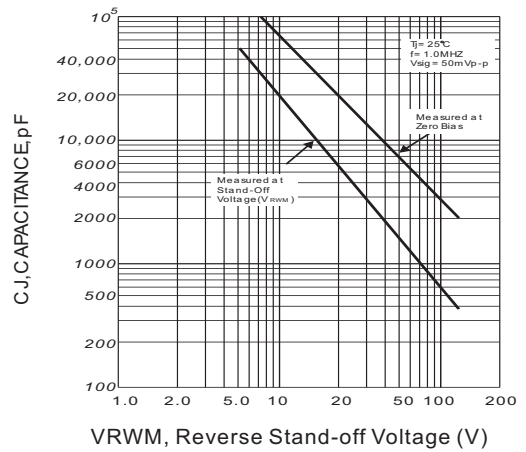
**Fig.1 PEAK PULSE POWER RATING VERSUS PULSE TIME CURVE**



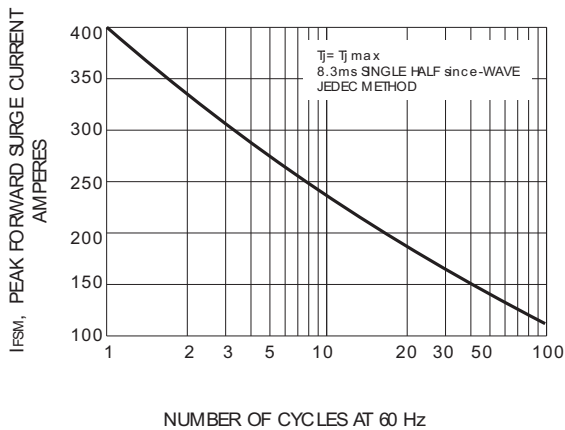
**Fig.2 PULSE DERATING CURVE**



**Fig.3 PULSE WAVEFORM**



**Fig.4 TYPICAL JUNCTION CAPACITANCE**



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



## 5KP SERIES

### Part No\_packing code\_Version

5KP5.0\_AY\_00001  
5KP5.0\_AY\_10001  
5KP5.0\_B0\_00001  
5KP5.0\_B0\_10001  
5KP5.0\_R2\_00001  
5KP5.0\_R2\_10001

For example :

**RB500V-40** **R2** **00001**



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



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