



## 瞬变电压抑制二极管 Transient Voltage Suppressor Diodes

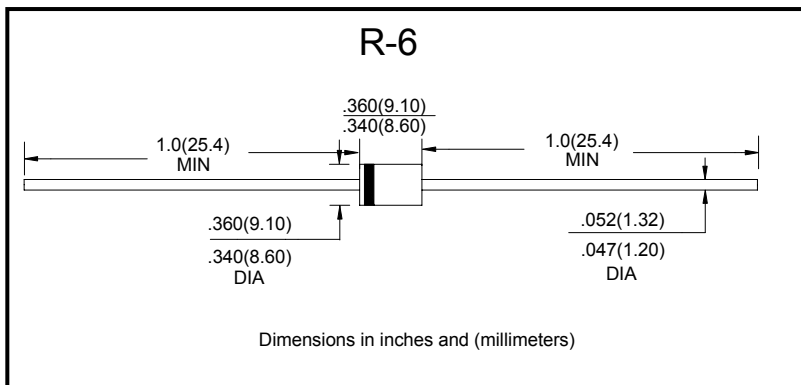
## ■特征 Features

- $P_{PP}$  5000W
- $V_{BR}$  5.0V-188V

## ■用途 Applications

- 箝位电压用 Clamping Voltage

## ■外形尺寸和印记 Outline Dimensions and Mark



## ■极限值（绝对最大额定值）

## Limiting Values (Absolute Maximum Rating)

| 参数名称<br>Item                                                    | 符号<br>Symbol | 单位<br>Unit | 条件<br>Conditions                                                    | 最大值<br>Max              |
|-----------------------------------------------------------------|--------------|------------|---------------------------------------------------------------------|-------------------------|
| 最大损耗功率<br>Peak power dissipation                                | PPPM         | W          | 在10/1000us 波形下测试<br>with a 10/1000us waveform                       | 5000                    |
| 最大脉冲电流<br>Peak pulse current                                    | IPPM         | A          | 在10/1000us 波形下测试<br>with a 10/1000us waveform                       | 见下面表格<br>See Next Table |
| 功率损耗<br>Power dissipation                                       | PD           | W          | 无限散热片@ TL=75℃<br>on infinite heat sink at TL=75℃                    | 8.0                     |
| 最大正向浪涌电流<br>Peak forward surge current                          | IFSM         | A          | 8.3ms正弦半波, 仅单向型<br>8.3 ms single half sine-wave unidirectional only | 600                     |
| 工作结温和存储温度范围<br>Operating junction and storage temperature range | TJ,TSTG      | ℃          |                                                                     | -55 to +175             |

■电特性（ $T_a=25^\circ\text{C}$  除非另有规定）Electrical Characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

| 参数名称<br>Item                                              | 符号<br>Symbol | 单位<br>Unit | 条件<br>Conditions                                  | 最大值<br>Max |
|-----------------------------------------------------------|--------------|------------|---------------------------------------------------|------------|
| 最大瞬间正向电压 (1)<br>Maximum instantaneous forward Voltage (1) | $V_F$        | V          | 在100A下测试, 仅单向型<br>at 100A for unidirectional only | 3.5        |

## 备注: Notes:

1. 测试在8.3ms正弦半波或相等的方波下, 占空系数=最大4个脉冲每分钟

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

■ 电性参数 (TA=25℃ 除非另有规定)

Electrical Characteristics (TA=25℃ unless otherwise noted)

| 产品型号<br>(单向)<br>Part Number(U<br>ni) | 产品型号<br>(双向)<br>Part Number(Bi) | 击穿电压 $V_{BR}@I_T$<br>Breakdown Voltage $V_{BR}@I_T$ |               |                   | 最大反向漏电流 $I_R$<br>Maximum<br>Reverse<br>Leakage $I_R @$<br>$V_{WM} (\mu A)$ | 最大工作电压<br>$V_{RWM}$<br>Working Peak<br>Reverse<br>Voltage<br>$V_{RWM} (V)$ | 最大反向浪涌<br>电流 IPP<br>Maximum<br>Reverse Surge<br>Current IPP<br>(A) | 最大箝位电压<br>Maximum<br>Clamping<br>Voltage $V_c$<br>@ $I_{PP}$<br>(V) | 最大温度系数<br>Maximum<br>Temperature<br>Coefficient of $V_{BR}$<br>(%/°C) |
|--------------------------------------|---------------------------------|-----------------------------------------------------|---------------|-------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
|                                      |                                 | 最小<br>Min(V)                                        | 最大<br>Max (V) | 测试电流<br>$I_T(mA)$ |                                                                            |                                                                            |                                                                    |                                                                     |                                                                       |
| 5KP5.0                               | 5KP5.0C                         | 6.40                                                | 7.30          | 50                | 2000                                                                       | 5.0                                                                        | 521                                                                | 9.6                                                                 | 0.057                                                                 |
| 5KP5.0A                              | 5KP5.0CA                        | 6.40                                                | 7.00          | 50                | 2000                                                                       | 5.0                                                                        | 543                                                                | 9.2                                                                 | 0.057                                                                 |
| 5KP6.0                               | 5KP6.0C                         | 6.67                                                | 8.15          | 50                | 5000                                                                       | 6.0                                                                        | 439                                                                | 11.4                                                                | 0.061                                                                 |
| 5KP6.0A                              | 5KP6.0CA                        | 6.67                                                | 7.37          | 50                | 5000                                                                       | 6.0                                                                        | 485                                                                | 10.3                                                                | 0.061                                                                 |
| 5KP6.5                               | 5KP6.5C                         | 7.22                                                | 8.82          | 50                | 2000                                                                       | 6.5                                                                        | 407                                                                | 12.3                                                                | 0.065                                                                 |
| 5KP6.5A                              | 5KP6.5CA                        | 7.22                                                | 7.98          | 50                | 2000                                                                       | 6.5                                                                        | 446                                                                | 11.2                                                                | 0.065                                                                 |
| 5KP7.0                               | 5KP7.0C                         | 7.78                                                | 9.51          | 50                | 1000                                                                       | 7.0                                                                        | 376                                                                | 13.3                                                                | 0.068                                                                 |
| 5KP7.0A                              | 5KP7.0CA                        | 7.78                                                | 8.60          | 50                | 1000                                                                       | 7.0                                                                        | 417                                                                | 12.0                                                                | 0.068                                                                 |
| 5KP7.5                               | 5KP7.5C                         | 8.33                                                | 10.2          | 5.0               | 250                                                                        | 7.5                                                                        | 350                                                                | 14.3                                                                | 0.073                                                                 |
| 5KP7.5A                              | 5KP7.5CA                        | 8.33                                                | 9.21          | 5.0               | 250                                                                        | 7.5                                                                        | 388                                                                | 12.9                                                                | 0.073                                                                 |
| 5KP8.0                               | 5KP8.0C                         | 8.89                                                | 10.9          | 5.0               | 150                                                                        | 8.0                                                                        | 333                                                                | 15.0                                                                | 0.075                                                                 |
| 5KP8.0A                              | 5KP8.0CA                        | 8.89                                                | 9.83          | 5.0               | 150                                                                        | 8.0                                                                        | 368                                                                | 13.6                                                                | 0.075                                                                 |
| 5KP8.5                               | 5KP8.5C                         | 9.44                                                | 11.5          | 5.0               | 50                                                                         | 8.5                                                                        | 314                                                                | 15.9                                                                | 0.078                                                                 |
| 5KP8.5A                              | 5KP8.5CA                        | 9.44                                                | 10.4          | 5.0               | 50                                                                         | 8.5                                                                        | 347                                                                | 14.4                                                                | 0.078                                                                 |
| 5KP9.0                               | 5KP9.0C                         | 10.0                                                | 12.2          | 5.0               | 20                                                                         | 9.0                                                                        | 296                                                                | 16.9                                                                | 0.081                                                                 |
| 5KP9.0A                              | 5KP9.0CA                        | 10.0                                                | 11.1          | 5.0               | 20                                                                         | 9.0                                                                        | 325                                                                | 15.4                                                                | 0.081                                                                 |
| 5KP10                                | 5KP10C                          | 11.1                                                | 13.6          | 5.0               | 15                                                                         | 10.0                                                                       | 266                                                                | 18.8                                                                | 0.084                                                                 |
| 5KP10A                               | 5KP10CA                         | 11.1                                                | 12.3          | 5.0               | 15                                                                         | 10.0                                                                       | 294                                                                | 17.0                                                                | 0.084                                                                 |
| 5KP11                                | 5KP11C                          | 12.2                                                | 14.9          | 5.0               | 10                                                                         | 11.0                                                                       | 249                                                                | 20.1                                                                | 0.086                                                                 |
| 5KP11A                               | 5KP11CA                         | 12.2                                                | 13.5          | 5.0               | 10                                                                         | 11.0                                                                       | 275                                                                | 18.2                                                                | 0.086                                                                 |
| 5KP12                                | 5KP12C                          | 13.3                                                | 16.3          | 5.0               | 5.0                                                                        | 12.0                                                                       | 227                                                                | 22.0                                                                | 0.088                                                                 |
| 5KP12A                               | 5KP12CA                         | 13.3                                                | 14.7          | 5.0               | 5.0                                                                        | 12.0                                                                       | 251                                                                | 19.9                                                                | 0.088                                                                 |
| 5KP13                                | 5KP13C                          | 14.4                                                | 17.6          | 5.0               | 2.0                                                                        | 13.0                                                                       | 210                                                                | 23.8                                                                | 0.090                                                                 |
| 5KP13A                               | 5KP13CA                         | 14.4                                                | 15.9          | 5.0               | 2.0                                                                        | 13.0                                                                       | 233                                                                | 21.5                                                                | 0.090                                                                 |
| 5KP14                                | 5KP14C                          | 15.6                                                | 19.1          | 5.0               | 2.0                                                                        | 14.0                                                                       | 194                                                                | 25.8                                                                | 0.092                                                                 |
| 5KP14A                               | 5KP14CA                         | 15.6                                                | 17.2          | 5.0               | 2.0                                                                        | 14.0                                                                       | 216                                                                | 23.2                                                                | 0.092                                                                 |
| 5KP15                                | 5KP15C                          | 16.7                                                | 20.4          | 5.0               | 2.0                                                                        | 15.0                                                                       | 186                                                                | 26.9                                                                | 0.094                                                                 |
| 5KP15A                               | 5KP15CA                         | 16.7                                                | 18.5          | 5.0               | 2.0                                                                        | 15.0                                                                       | 205                                                                | 24.4                                                                | 0.094                                                                 |
| 5KP16                                | 5KP16C                          | 17.8                                                | 21.8          | 5.0               | 2.0                                                                        | 16.0                                                                       | 174                                                                | 28.8                                                                | 0.096                                                                 |
| 5KP16A                               | 5KP16CA                         | 17.8                                                | 19.7          | 5.0               | 2.0                                                                        | 16.0                                                                       | 192                                                                | 26.0                                                                | 0.096                                                                 |
| 5KP17                                | 5KP17C                          | 18.9                                                | 23.1          | 5.0               | 2.0                                                                        | 17.0                                                                       | 164                                                                | 30.5                                                                | 0.097                                                                 |
| 5KP17A                               | 5KP17CA                         | 18.9                                                | 20.9          | 5.0               | 2.0                                                                        | 17.0                                                                       | 181                                                                | 27.6                                                                | 0.097                                                                 |
| 5KP18                                | 5KP18C                          | 20.0                                                | 24.4          | 5.0               | 2.0                                                                        | 18.0                                                                       | 155                                                                | 32.2                                                                | 0.098                                                                 |
| 5KP18A                               | 5KP18CA                         | 20.0                                                | 22.1          | 5.0               | 2.0                                                                        | 18.0                                                                       | 171                                                                | 29.2                                                                | 0.098                                                                 |
| 5KP20                                | 5KP20C                          | 22.2                                                | 27.1          | 5.0               | 2.0                                                                        | 20.0                                                                       | 140                                                                | 35.8                                                                | 0.099                                                                 |
| 5KP20A                               | 5KP20CA                         | 22.2                                                | 24.5          | 5.0               | 2.0                                                                        | 20.0                                                                       | 154                                                                | 32.4                                                                | 0.099                                                                 |



## 5KP SERIES

■ 电性参数 (TA=25℃ 除非另有规定)

### Electrical Characteristics (TA=25℃ unless otherwise noted)

| 产品型号<br>(单向)<br>Part<br>Number(U<br>ni) | 产品型号<br>(双向)<br>Part<br>Number(Bi) | 击穿电压 $V_{BR}@I_T$<br>Breakdown Voltage $V_{BR}@I_T$ |               |                | 最大反向漏电<br>流 $I_R$<br>Maximum<br>Reverse<br>Leakage $I_R$ @<br>$V_{WM}$ ( $\mu$ A) | 最大工作电压<br>$V_{RWM}$<br>Working Peak<br>Reverse<br>Voltage<br>$V_{RWM}$ (V) | 最大反向浪涌<br>电流 IPP<br>Maximum<br>Reverse Surge<br>Current IPP<br>(A) | 最大箝位电压<br>Maximum<br>Clamping<br>Voltage Vc<br>@ IPP<br>(V) | 最大温度系数<br>Maximum<br>Temperature<br>Coefficient of $V_{BR}$<br>(%/°C) |
|-----------------------------------------|------------------------------------|-----------------------------------------------------|---------------|----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|
|                                         |                                    | 最小<br>Min(V)                                        | 最大<br>Max (V) | 测试电流<br>IT(mA) |                                                                                   |                                                                            |                                                                    |                                                             |                                                                       |
| 5KP22                                   | 5KP22C                             | 24.4                                                | 29.8          | 5.0            | 2.0                                                                               | 22.0                                                                       | 127                                                                | 39.4                                                        | 0.100                                                                 |
| 5KP22A                                  | 5KP22CA                            | 24.4                                                | 26.9          | 5.0            | 2.0                                                                               | 22.0                                                                       | 141                                                                | 35.5                                                        | 0.100                                                                 |
| 5KP24                                   | 5KP24C                             | 26.7                                                | 32.6          | 5.0            | 2.0                                                                               | 24.0                                                                       | 116                                                                | 43.0                                                        | 0.101                                                                 |
| 5KP24A                                  | 5KP24CA                            | 26.7                                                | 29.5          | 5.0            | 2.0                                                                               | 24.0                                                                       | 129                                                                | 38.9                                                        | 0.101                                                                 |
| 5KP26                                   | 5KP26C                             | 28.9                                                | 35.3          | 5.0            | 2.0                                                                               | 26.0                                                                       | 107                                                                | 46.6                                                        | 0.101                                                                 |
| 5KP26A                                  | 5KP26CA                            | 28.9                                                | 31.9          | 5.0            | 2.0                                                                               | 26.0                                                                       | 119                                                                | 42.1                                                        | 0.101                                                                 |
| 5KP26A                                  | 5KP26CA                            | 28.9                                                | 31.9          | 5.0            | 2.0                                                                               | 26.0                                                                       | 119                                                                | 42.1                                                        | 0.101                                                                 |
| 5KP28                                   | 5KP28C                             | 31.1                                                | 38.0          | 5.0            | 2.0                                                                               | 28.0                                                                       | 100                                                                | 50.1                                                        | 0.102                                                                 |
| 5KP28A                                  | 5KP28CA                            | 31.1                                                | 34.4          | 5.0            | 2.0                                                                               | 28.0                                                                       | 110                                                                | 45.4                                                        | 0.102                                                                 |
| 5KP30                                   | 5KP30C                             | 33.3                                                | 40.7          | 5.0            | 2.0                                                                               | 30.0                                                                       | 93.5                                                               | 53.5                                                        | 0.103                                                                 |
| 5KP30A                                  | 5KP30CA                            | 33.3                                                | 36.8          | 5.0            | 2.0                                                                               | 30.0                                                                       | 103                                                                | 48.4                                                        | 0.103                                                                 |
| 5KP33                                   | 5KP33C                             | 36.7                                                | 44.9          | 5.0            | 2.0                                                                               | 33.0                                                                       | 84.7                                                               | 59.0                                                        | 0.104                                                                 |
| 5KP33A                                  | 5KP33CA                            | 36.7                                                | 40.6          | 5.0            | 2.0                                                                               | 33.0                                                                       | 93.8                                                               | 53.3                                                        | 0.104                                                                 |
| 5KP36                                   | 5KP36C                             | 40.0                                                | 48.9          | 5.0            | 2.0                                                                               | 36.0                                                                       | 77.8                                                               | 64.3                                                        | 0.104                                                                 |
| 5KP36A                                  | 5KP36CA                            | 40.0                                                | 44.2          | 5.0            | 2.0                                                                               | 36.0                                                                       | 86.1                                                               | 58.1                                                        | 0.104                                                                 |
| 5KP40                                   | 5KP40C                             | 44.4                                                | 54.3          | 5.0            | 2.0                                                                               | 40.0                                                                       | 70.0                                                               | 71.4                                                        | 0.105                                                                 |
| 5KP40A                                  | 5KP40CA                            | 44.4                                                | 49.1          | 5.0            | 2.0                                                                               | 40.0                                                                       | 77.5                                                               | 64.5                                                        | 0.105                                                                 |
| 5KP43                                   | 5KP43C                             | 47.8                                                | 58.4          | 5.0            | 2.0                                                                               | 43.0                                                                       | 65.2                                                               | 76.7                                                        | 0.105                                                                 |
| 5KP43A                                  | 5KP43CA                            | 47.8                                                | 52.8          | 5.0            | 2.0                                                                               | 43.0                                                                       | 72.0                                                               | 69.4                                                        | 0.105                                                                 |
| 5KP45                                   | 5KP45C                             | 50.0                                                | 61.1          | 5.0            | 2.0                                                                               | 45.0                                                                       | 62.3                                                               | 80.3                                                        | 0.106                                                                 |
| 5KP45A                                  | 5KP45CA                            | 50.0                                                | 55.3          | 5.0            | 2.0                                                                               | 45.0                                                                       | 68.8                                                               | 72.7                                                        | 0.106                                                                 |
| 5KP48                                   | 5KP48C                             | 53.3                                                | 65.2          | 5.0            | 2.0                                                                               | 48.0                                                                       | 58.5                                                               | 85.5                                                        | 0.106                                                                 |
| 5KP48A                                  | 5KP48CA                            | 53.3                                                | 58.9          | 5.0            | 2.0                                                                               | 48.0                                                                       | 64.6                                                               | 77.4                                                        | 0.106                                                                 |
| 5KP51                                   | 5KP51C                             | 56.1                                                | 69.3          | 5.0            | 2.0                                                                               | 51.0                                                                       | 54.9                                                               | 91.1                                                        | 0.107                                                                 |
| 5KP51A                                  | 5KP51CA                            | 56.7                                                | 62.7          | 5.0            | 2.0                                                                               | 51.0                                                                       | 60.7                                                               | 82.4                                                        | 0.107                                                                 |
| 5KP54                                   | 5KP54C                             | 60.0                                                | 73.3          | 5.0            | 2.0                                                                               | 54.0                                                                       | 51.9                                                               | 96.3                                                        | 0.107                                                                 |
| 5KP54A                                  | 5KP54CA                            | 60.0                                                | 66.3          | 5.0            | 2.0                                                                               | 54.0                                                                       | 57.4                                                               | 87.1                                                        | 0.107                                                                 |
| 5KP58                                   | 5KP58C                             | 64.4                                                | 78.7          | 5.0            | 2.0                                                                               | 58.0                                                                       | 48.5                                                               | 103                                                         | 0.107                                                                 |
| 5KP58A                                  | 5KP58CA                            | 64.4                                                | 71.2          | 5.0            | 2.0                                                                               | 58.0                                                                       | 53.4                                                               | 94                                                          | 0.107                                                                 |
| 5KP60                                   | 5KP60C                             | 66.7                                                | 81.5          | 5.0            | 2.0                                                                               | 60.0                                                                       | 46.7                                                               | 107                                                         | 0.108                                                                 |
| 5KP60A                                  | 5KP60CA                            | 66.7                                                | 73.7          | 5.0            | 2.0                                                                               | 60.0                                                                       | 51.7                                                               | 97                                                          | 0.108                                                                 |
| 5KP64                                   | 5KP64C                             | 71.1                                                | 96.9          | 5.0            | 2.0                                                                               | 64.0                                                                       | 43.9                                                               | 114                                                         | 0.108                                                                 |
| 5KP64A                                  | 5KP64CA                            | 71.1                                                | 78.6          | 5.0            | 2.0                                                                               | 64.0                                                                       | 48.5                                                               | 103                                                         | 0.108                                                                 |
| 5KP70                                   | 5KP70C                             | 77.6                                                | 95.1          | 5.0            | 2.0                                                                               | 70.0                                                                       | 40.0                                                               | 125                                                         | 0.108                                                                 |
| 5KP70A                                  | 5KP70CA                            | 77.8                                                | 86.0          | 5.0            | 2.0                                                                               | 70.0                                                                       | 44.2                                                               | 113                                                         | 0.108                                                                 |
| 5KP75                                   | 5KP75C                             | 83.3                                                | 102           | 5.0            | 2.0                                                                               | 75.0                                                                       | 37.3                                                               | 134                                                         | 0.108                                                                 |
| 5KP75A                                  | 5KP75CA                            | 83.3                                                | 92.1          | 5.0            | 2.0                                                                               | 75.0                                                                       | 41.3                                                               | 121                                                         | 0.108                                                                 |

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Electrical Characteristics (TA=25℃ unless otherwise noted)

| 产品型号<br>(单向)<br>Part<br>Number(U<br>ni) | 产品型号<br>(双向)<br>Part<br>Number(Bi) | 击穿电压 $V_{BR}@I_T$<br>Breakdown Voltage $V_{BR}@I_T$ |               |                | 最大反向漏电流 $I_R$<br>Maximum<br>Reverse<br>Leakage $I_R$ @<br>$V_{WM}$ ( $\mu$ A) | 最大工作电压<br>$V_{RWM}$<br>Working Peak<br>Reverse<br>Voltage<br>$V_{RWM}$ (V) | 最大反向浪涌<br>电流 IPP<br>Maximum<br>Reverse Surge<br>Current IPP<br>(A) | 最大箝位电压<br>Maximum<br>Clamping<br>Voltage Vc<br>@ IPP<br>(V) | 最大温度系数<br>Maximum<br>Temperature<br>Coefficient of $V_{BR}$<br>(%/°C) |
|-----------------------------------------|------------------------------------|-----------------------------------------------------|---------------|----------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|
|                                         |                                    | 最小<br>Min(V)                                        | 最大<br>Max (V) | 测试电流<br>IT(mA) |                                                                               |                                                                            |                                                                    |                                                             |                                                                       |
| 5KP78                                   | 5KP78C                             | 86.7                                                | 106.0         | 5.0            | 2.0                                                                           | 78.0                                                                       | 36.0                                                               | 139                                                         | 0.108                                                                 |
| 5KP78A                                  | 5KP78CA                            | 86.7                                                | 95.8          | 5.0            | 2.0                                                                           | 78.0                                                                       | 39.7                                                               | 126                                                         | 0.108                                                                 |
| 5KP85                                   | 5KP85C                             | 94.4                                                | 115           | 5.0            | 2.0                                                                           | 85.0                                                                       | 33.1                                                               | 151                                                         | 0.108                                                                 |
| 5KP85A                                  | 5KP85CA                            | 94.4                                                | 104           | 5.0            | 2.0                                                                           | 85.0                                                                       | 36.5                                                               | 137                                                         | 0.110                                                                 |
| 5KP90                                   | 5KP90C                             | 100                                                 | 122           | 5.0            | 2.0                                                                           | 90.0                                                                       | 31.3                                                               | 160                                                         | 0.110                                                                 |
| 5KP90A                                  | 5KP90CA                            | 100                                                 | 111           | 5.0            | 2.0                                                                           | 90.0                                                                       | 34.2                                                               | 146                                                         | 0.110                                                                 |
| 5KP100                                  | 5KP100C                            | 111                                                 | 136           | 5.0            | 2.0                                                                           | 100                                                                        | 27.9                                                               | 179                                                         | 0.110                                                                 |
| 5KP100A                                 | 5KP100CA                           | 111                                                 | 123           | 5.0            | 2.0                                                                           | 100                                                                        | 30.9                                                               | 162                                                         | 0.110                                                                 |
| 5KP110                                  | 5KP110C                            | 122                                                 | 149           | 5.0            | 2.0                                                                           | 110                                                                        | 25.5                                                               | 196                                                         | 0.112                                                                 |
| 5KP110A                                 | 5KP110CA                           | 122                                                 | 135           | 5.0            | 2.0                                                                           | 110                                                                        | 28.2                                                               | 177                                                         | 0.112                                                                 |
| 5KP120                                  | 5KP120C                            | 133                                                 | 163           | 5.0            | 2.0                                                                           | 120                                                                        | 23.4                                                               | 214                                                         | 0.112                                                                 |
| 5KP120A                                 | 5KP120CA                           | 133                                                 | 147           | 5.0            | 2.0                                                                           | 120                                                                        | 25.9                                                               | 193                                                         | 0.112                                                                 |
| 5KP130                                  | 5KP130C                            | 144                                                 | 176           | 5.0            | 2.0                                                                           | 130                                                                        | 21.6                                                               | 230                                                         | 0.112                                                                 |
| 5KP130A                                 | 5KP130CA                           | 144                                                 | 159           | 5.0            | 2.0                                                                           | 130                                                                        | 23.9                                                               | 209                                                         | 0.112                                                                 |
| 5KP150                                  | 5KP150C                            | 167                                                 | 204           | 5.0            | 2.0                                                                           | 150                                                                        | 18.7                                                               | 268                                                         | 0.112                                                                 |
| 5KP150A                                 | 5KP150CA                           | 167                                                 | 185           | 5.0            | 2.0                                                                           | 150                                                                        | 20.6                                                               | 243                                                         | 0.112                                                                 |
| 5KP160                                  | 5KP160C                            | 178                                                 | 218           | 5.0            | 2.0                                                                           | 160                                                                        | 17.4                                                               | 287                                                         | 0.112                                                                 |
| 5KP160A                                 | 5KP160CA                           | 178                                                 | 197           | 5.0            | 2.0                                                                           | 160                                                                        | 19.3                                                               | 259                                                         | 0.112                                                                 |
| 5KP170                                  | 5KP170C                            | 189                                                 | 231           | 5.0            | 2.0                                                                           | 170                                                                        | 16.4                                                               | 304                                                         | 0.112                                                                 |
| 5KP170A                                 | 5KP170CA                           | 189                                                 | 209           | 5.0            | 2.0                                                                           | 170                                                                        | 18.2                                                               | 275                                                         | 0.112                                                                 |
| 5KP188                                  | 5KP188C                            | 209                                                 | 255           | 5.0            | 2.0                                                                           | 188                                                                        | 14.5                                                               | 344                                                         | 0.112                                                                 |
| 5KP188A                                 | 5KP188CA                           | 209                                                 | 231           | 5.0            | 2.0                                                                           | 188                                                                        | 15.2                                                               | 328                                                         | 0.112                                                                 |



## ■特性曲线（典型） Characteristics(Typical)

图1: 最大脉冲功率曲线

FIG1: Peak Pulse Power Rating Curve

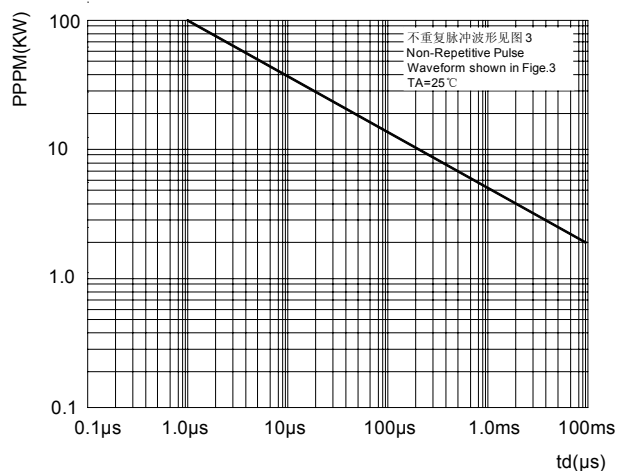


图2: 脉冲功率或电流与结温关系

FIG2: Pulse Power or Current vs. Initial Junction Temperature

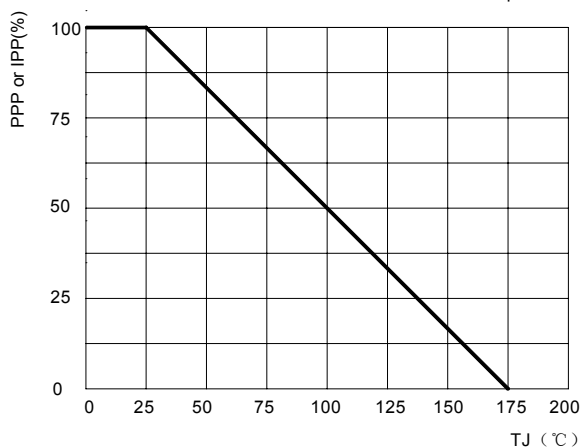


图3: 脉冲波形

FIG3: Pulse Waveform

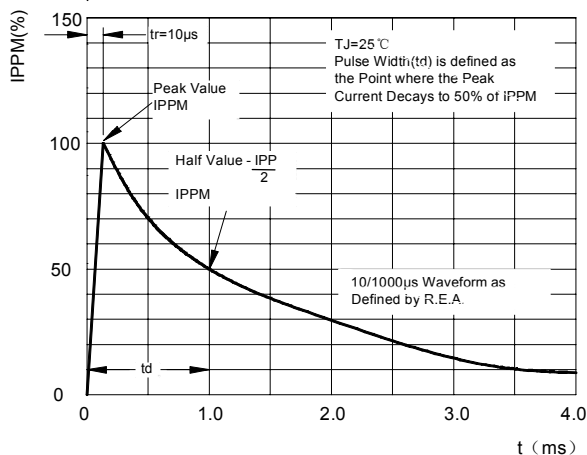


图4: 功率降额曲线

FIG4: Power Derating Curve

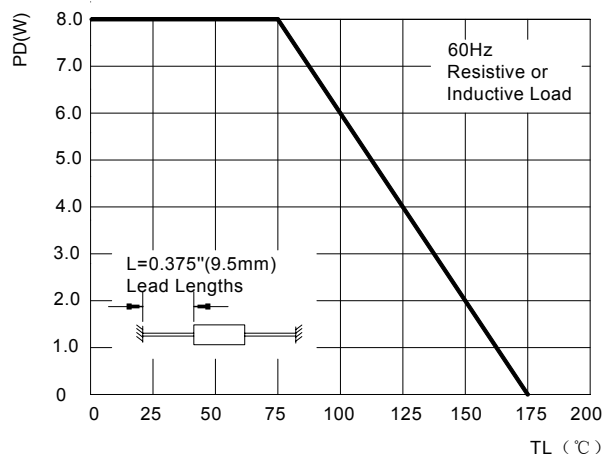


图5: 最大不重复浪涌电流

FIG5: Maximum Non-Repetitive Surge Current

