

## FEATURES

- Wide operating voltages ranging from 11 to 1,000 V<sub>RMS</sub>
- Fast response time of less than 25ns, instantly clamping the transient over voltage
- High surge current handling capability
- High energy absorption capability
- Low clamping voltages, providing better surge protection
- Low capacitance values, providing digital switching circuitry protection
- High insulation resistance, preventing electric arcing to the adjacent devices or circuits



## APPLICATIONS

- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronics
- Surge protection in industrial electronics
- Surge protection in electronic home appliances, gas and petroleum appliances
- Relay and electromagnetic valve surge absorption

## APPLICABLE STANDARDS

- UL1449
- VDE (IEC61051-1, -2, -2-2, IEC60950-1 Annex Q)
- CQC (GB/T10193, GB/T10194, GB4943.1, GB8898)

## TYPE CODE DESIGNATION

|                                              |     |                                                   |   |                                                                            |   |                          |                          |                                                                                                                                                                    |
|----------------------------------------------|-----|---------------------------------------------------|---|----------------------------------------------------------------------------|---|--------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JJV: JieJie Semiconductor Varistors          | JJV | <input type="checkbox"/> <input type="checkbox"/> | D | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | K | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>                                                                                                                                           |
| Size(mm): 05mm to 32mm                       |     |                                                   |   |                                                                            |   |                          |                          | H:epoxy coating 125°C                                                                                                                                              |
| Type: D: Disk; S: Square                     |     |                                                   |   |                                                                            |   |                          |                          | S:short leg; No: <input type="checkbox"/> <input type="checkbox"/>                                                                                                 |
| Varistor voltage:<br>180L(18V) to 821K(820V) |     |                                                   |   |                                                                            |   |                          |                          | Lead form:<br>P: straight; C: crimped; I: inner Y: Y kink<br>E: 4KV/2KA; S: 6KV/3KA; Y: 10KV/5KA<br>J: high surge & high energy<br>Taping mode: TA: Ammo; TR: Reel |
| Tolerance:<br>K±10%, L±15%, M±20%            |     |                                                   |   |                                                                            |   |                          |                          |                                                                                                                                                                    |



## GENERAL TECHNICAL DATA

| Parameter                   | Value                        | Unit |
|-----------------------------|------------------------------|------|
| Operating temperature       | -40 to +85                   | °C   |
| Storage temperature         | -40 to +125                  | °C   |
| Working surface temperature | +115                         | °C   |
| Insulation resistance       | ≥100                         | MΩ   |
| Coating (epoxy resin)       | Flame-retardant to UL 94 V-0 |      |

## RATINGS AND CHARACTERISTICS

| Part No | Maximum allowable voltage |    | Energy<br>10/1000μs |            | Withstanding surge current<br>8/20μs |        |                |        | Rated POWER | Varistor voltage | Max clamping voltage | Capacitance |
|---------|---------------------------|----|---------------------|------------|--------------------------------------|--------|----------------|--------|-------------|------------------|----------------------|-------------|
|         | AC V <sub>RMS</sub>       | DC | Standard            | High surge | Standard (A)                         |        | High surge (A) |        |             | W                | at 1mA               | at 10A      |
|         | V                         | V  | J                   | J          | 1 TIME                               | 2 TIME | 1 TIME         | 2 TIME | V           |                  | V                    | PF          |
| 14D180L | 11                        | 14 | 6.6                 | 7.0        | 1000                                 | 500    | 2000           | 1000   | 0.1         | 18(15-21)        | 38                   | 11100       |
| 14D220K | 14                        | 18 | 7.6                 | 8.0        | 1000                                 | 500    | 2000           | 1000   | 0.1         | 22(20-24)        | 43                   | 9100        |
| 14D270K | 17                        | 22 | 9.7                 | 10.0       | 1000                                 | 500    | 2000           | 1000   | 0.1         | 27(24-30)        | 53                   | 7400        |
| 14D330K | 20                        | 26 | 12.3                | 12.5       | 1000                                 | 500    | 2000           | 1000   | 0.1         | 33(30-36)        | 65                   | 6100        |
| 14D390K | 25                        | 31 | 13.2                | 13.0       | 1000                                 | 500    | 2000           | 1000   | 0.1         | 39(35-43)        | 77                   | 5100        |
| 14D470K | 30                        | 38 | 16.8                | 17.0       | 1000                                 | 500    | 2000           | 1000   | 0.1         | 47(42-52)        | 93                   | 4300        |
| 14D560K | 35                        | 45 | 19.6                | 20         | 1000                                 | 500    | 2000           | 1000   | 0.1         | 56(50-62)        | 110                  | 3600        |
| 14D680K | 40                        | 56 | 23.8                | 24         | 1000                                 | 500    | 2000           | 1000   | 0.1         | 68(61-75)        | 135                  | 2900        |



| Part No | Maximum allowable voltage |      | Energy 10/1000μs |            | Withstanding surge current 8/20μs |        |                |        | Rated POWER | Varistor voltage | Max clamping voltage | Capacitance |
|---------|---------------------------|------|------------------|------------|-----------------------------------|--------|----------------|--------|-------------|------------------|----------------------|-------------|
|         | AC V <sub>RMS</sub>       | DC   | Standard         | High surge | Standard (A)                      |        | High surge (A) |        | W           | at 1mA           | at 50A               | 1KHz        |
|         | V                         | V    | J                | J          | 1 TIME                            | 2 TIME | 1 TIME         | 2 TIME |             | V                | V                    | PF          |
| 14D820K | 50                        | 65   | 29.4             | 30.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 82(74-90)        | 135                  | 2400        |
| 14D101K | 60                        | 85   | 33.6             | 35.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 100(90-110)      | 165                  | 2000        |
| 14D121K | 75                        | 100  | 40.6             | 42.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 120(108-132)     | 200                  | 1700        |
| 14D151K | 95                        | 125  | 51.8             | 53.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 150(135-165)     | 250                  | 1300        |
| 14D181K | 115                       | 150  | 58.8             | 74.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 180(162-198)     | 300                  | 1100        |
| 14D201K | 130                       | 170  | 75.2             | 78.6       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 200(185-225)     | 330                  | 1000        |
| 14D221K | 140                       | 180  | 79.8             | 80.5       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 220(198-242)     | 360                  | 900         |
| 14D241K | 150                       | 200  | 82.6             | 86.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 240(216-264)     | 395                  | 830         |
| 14D271K | 175                       | 225  | 84.0             | 94.0       | 4500                              | 2500   | 6000           | 5000   | 0.6         | 270(243-297)     | 455                  | 740         |
| 14D301K | 190                       | 250  | 103              | 105        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 300(270-330)     | 505                  | 670         |
| 14D331K | 210                       | 275  | 112              | 115        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 330(297-363)     | 550                  | 610         |
| 14D361K | 230                       | 300  | 123              | 130        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 360(324-396)     | 595                  | 560         |
| 14D391K | 250                       | 320  | 135              | 140        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 390(351-429)     | 650                  | 510         |
| 14D431K | 275                       | 350  | 145              | 155        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 430(387-473)     | 710                  | 460         |
| 14D471K | 300                       | 385  | 147              | 175        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 470(423-517)     | 775                  | 430         |
| 14D511K | 320                       | 415  | 148              | 180        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 510(459-561)     | 845                  | 390         |
| 14D561K | 350                       | 460  | 150              | 186        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 560(504-616)     | 920                  | 360         |
| 14D621K | 385                       | 505  | 155              | 188        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 620(558-682)     | 1025                 | 320         |
| 14D681K | 420                       | 560  | 160              | 190        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 680(612-748)     | 1120                 | 290         |
| 14D751K | 460                       | 615  | 180              | 210        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 750(675-825)     | 1240                 | 270         |
| 14D781K | 485                       | 640  | 190              | 211        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 780(702-858)     | 1290                 | 260         |
| 14D821K | 510                       | 670  | 203              | 235        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 820(738-902)     | 1355                 | 230         |
| 14D911K | 550                       | 745  | 208              | 255        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 910(819-1001)    | 1500                 | 220         |
| 14D102K | 625                       | 825  | 212              | 280        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 1000(900-1100)   | 1650                 | 200         |
| 14D112K | 680                       | 895  | 217              | 310        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 1100(990-1210)   | 1815                 | 180         |
| 14D152K | 900                       | 1200 | 266              | 420        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 1500(1350-1650)  | 2475                 | 130         |
| 14D182K | 1000                      | 1465 | 336              | 510        | 4500                              | 2500   | 6000           | 5000   | 0.6         | 1800(1620-1980)  | 2970                 | 110         |



## RELIABILITY TESTS - Mechanical Ratings

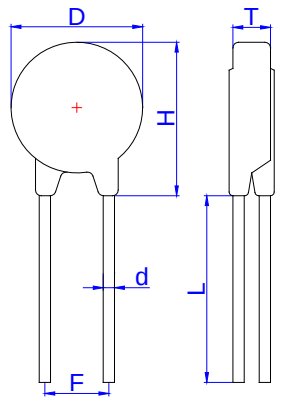
| Parameter                           | Condition                                                                                                                                                                                                                                                                                                                     |          |         | Requirements                                              |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-----------------------------------------------------------|
| Terminal Pull Strength              | After gradually applying the load specified below and keeping the unit fixed for ten seconds, the terminal shall be visually examined for any damage.                                                                                                                                                                         | Diameter | Loading | Novisible damage                                          |
|                                     |                                                                                                                                                                                                                                                                                                                               | 0.6mm    | 1.0Kg   |                                                           |
|                                     |                                                                                                                                                                                                                                                                                                                               | 0.8mm    | 1.0Kg   |                                                           |
|                                     |                                                                                                                                                                                                                                                                                                                               | 1.0mm    | 2.0Kg   |                                                           |
| Terminal Bending Strength           | The unit shall be secured with its terminal kept vertical and the weight specified below be applied in the axial direction. The terminal shall gradually be bent by 90° in one direction, then 90° in the opposite direction, and again back to the original position. The damage of the terminal shall be visually examined. | Diameter | Loading | Novisible damage                                          |
|                                     |                                                                                                                                                                                                                                                                                                                               | 0.6mm    | 0.5Kg   |                                                           |
|                                     |                                                                                                                                                                                                                                                                                                                               | 0.8mm    | 0.5Kg   |                                                           |
|                                     |                                                                                                                                                                                                                                                                                                                               | 1.0mm    | 1.0Kg   |                                                           |
| Vibration                           | The specimen shall be vibrated by its lead wires with a total amplitude of 1.5mm and a varying frequency of 10~55~10HZ (each minutes) for a period of 2 hours respectively in each X, Y and Z directions.                                                                                                                     |          |         | Novisible damage<br>$\Delta V_{1mA}/V_{1mA} \leq \pm 5\%$ |
| Soldering-solderability             | After dipping the terminal to depth of approximately 3mm from the specimen in a soldering bath of 260°C for 10±1 (D5:5±1) seconds. Thereafter the terminal shall be visually examined.                                                                                                                                        |          |         | Terminations shall be uniformly tinned                    |
| Soldering-Resistance to Solder Heat | After preheating the specimen, the specimen shall be completely immersed into a soldering bath having a temperature of 260±5°C for 10±1 (D5:5±1) seconds or iron of 400±5°C for 3±0.5 seconds. Thereafter the change of $V_{1mA}$ and mechanical damage shall be examined.                                                    |          |         | Novisible damage<br>$\Delta V_{1mA}/V_{1mA} \leq \pm 5\%$ |



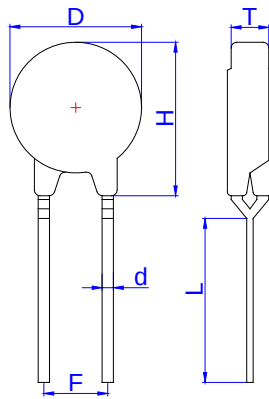
## RELIABILITY TESTS - Environmental ratings

| Parameter                | Condition                                                                                                                                                                                                                                                                                                                                                                 |      |                            |         | Requirements                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------|---------|------------------------------------------------------------|
| Dry Heat Loading         | The specimen shall be applied continuously the maximum allowable voltage at the specified conditions for specified period and then stored at room temperature and normal humidity over 2 hours. Thereafter the change of $V_{1mA}$ and mechanical damage shall be examined.<br>Ambient temp.: $125\pm 2^{\circ}\text{C}$ ; Period: $1000\pm 24$ hours.                    |      |                            |         | $\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$                     |
| High Temperature Storage | In a drying oven without load.<br>Ambient temp.: $125\pm 2^{\circ}\text{C}$ ; period: $1000\pm 24$ hours                                                                                                                                                                                                                                                                  |      |                            |         | $\Delta V_{1mA}/V_{1mA} \leq 5\%$                          |
| Damp Heat Loading        | The specimen shall be applied continuously the maximum allowable voltage at the specified conditions for specified period and then stored at room temperature and normal humidity over 2 hours. Thereafter, the change of $V_{1mA}$ and mechanical damage shall be examined.<br>Ambient condition: $40\pm 2^{\circ}\text{C}$ , 90 to 95% R.H.; period: $1000\pm 24$ hours |      |                            |         | $\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$                     |
| Temperature Cycle        | Condition the specimen to each temperature from step 1 to step 4 in this order for the period shown in the table of specifications. The change of $V_{1mA}$ and mechanical damage shall be examined after 2 hours. Repeat 5 cycles.                                                                                                                                       | Step | Temp( $^{\circ}\text{C}$ ) | Period  | Novisible damage<br>$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$ |
|                          |                                                                                                                                                                                                                                                                                                                                                                           | 1    | $-40\pm 3^{\circ}\text{C}$ | 30 min. |                                                            |
|                          |                                                                                                                                                                                                                                                                                                                                                                           | 2    | RoomTemp.                  | 15 min. |                                                            |
|                          |                                                                                                                                                                                                                                                                                                                                                                           | 3    | $85\pm 2^{\circ}\text{C}$  | 30 min. |                                                            |
|                          |                                                                                                                                                                                                                                                                                                                                                                           | 4    | RoomTemp.                  | 15 min. |                                                            |
| Surge Lifetime Rating    | The change of $V_{1mA}$ shall be measured after the impulse listed below is applied 10,000 times continuously with the interval often seconds at room temperature.                                                                                                                                                                                                        |      |                            |         | Novisible damage<br>$\Delta V_{1mA}/V_{1mA} \leq \pm 10\%$ |
| Voltage Proof            | Voltage: $2500V_{AC}$ ; Leakage Current $\leq 0.5\text{mA}$ ; Time: 60 Seconds                                                                                                                                                                                                                                                                                            |      |                            |         | No Breakdown                                               |

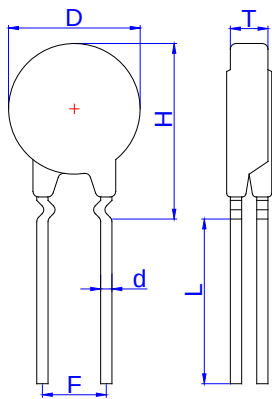
## DIMENSIONAL DRAWINGS



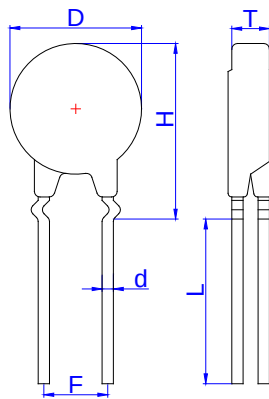
S Type (Straight Lead)



Y Lead Type (Y Kink Lead)



I Type (Inner Crimped Lead)



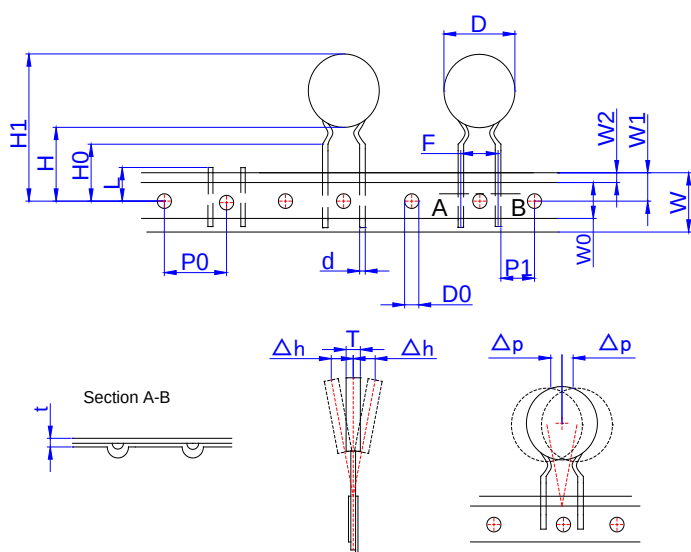
C Type (Out Crimped Lead)

| Ref. | Dimensions  |      |      |        |       |       |
|------|-------------|------|------|--------|-------|-------|
|      | Millimeters |      |      | Inches |       |       |
|      | Min.        | Typ. | Max. | Min.   | Typ.  | Max.  |
| D    |             |      | 17.0 |        |       | 0.669 |
| L    | 15.0        |      |      | 0.591  |       |       |
| d    | 0.75        | 0.80 | 0.85 | 0.030  | 0.031 | 0.033 |
| F    | 6.7         | 7.5  | 8.3  | 0.264  | 0.295 | 0.327 |
| H    | SB          |      | 18.0 |        |       | 0.709 |
|      | CB/IB/YB    |      | 22.0 |        |       | 0.866 |
| T    | 14D182K     |      | 12.5 |        |       | 0.492 |
|      | 14D152K     |      | 11.0 |        |       | 0.433 |
|      | 14D112K     |      | 8.5  |        |       | 0.335 |
|      | 14D102K     |      | 7.8  |        |       | 0.307 |
|      | 14D911K     |      | 7.6  |        |       | 0.299 |
|      | 14D821K     |      | 7.2  |        |       | 0.283 |
|      | 14D781K     |      | 6.8  |        |       | 0.268 |
|      | 14D751K     |      | 6.5  |        |       | 0.256 |
|      | 14D681K     |      | 6.4  |        |       | 0.252 |
|      | 14D621K     |      | 6.4  |        |       | 0.252 |
|      | 14D561K     |      | 6.2  |        |       | 0.244 |
|      | 14D511K     |      | 5.8  |        |       | 0.228 |
|      | 14D471K     |      | 5.6  |        |       | 0.220 |
|      | 14D431K     |      | 5.3  |        |       | 0.209 |
|      | 14D391K     |      | 5.1  |        |       | 0.201 |
|      | 14D361K     |      | 5.0  |        |       | 0.197 |
|      | 14D331K     |      | 4.8  |        |       | 0.190 |
|      | 14D301K     |      | 4.7  |        |       | 0.185 |
|      | 14D271K     |      | 4.5  |        |       | 0.177 |
|      | 14D241K     |      | 4.3  |        |       | 0.169 |
|      | 14D221K     |      | 4.2  |        |       | 0.165 |
|      | 14D201K     |      | 4.1  |        |       | 0.161 |
|      | 14D181K     |      | 4.1  |        |       | 0.161 |
|      | 14D151K     |      | 4.8  |        |       | 0.190 |
|      | 14D121K     |      | 4.5  |        |       | 0.177 |
|      | 14D101K     |      | 4.3  |        |       | 0.169 |
|      | 14D820K     |      | 4.1  |        |       | 0.161 |
|      | 14D680K     |      | 4.1  |        |       | 0.161 |
|      | 14D560K     |      | 4.1  |        |       | 0.161 |
|      | 14D470K     |      | 4.5  |        |       | 0.177 |
|      | 14D390K     |      | 4.5  |        |       | 0.177 |
|      | 14D330K     |      | 4.2  |        |       | 0.165 |
|      | 14D270K     |      | 4.0  |        |       | 0.157 |
|      | 14D220K     |      | 4.0  |        |       | 0.157 |
|      | 14D180L     |      | 4.0  |        |       | 0.157 |

## MARKING

|                                                                                     |                     |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
|  | Trademark           |  |
|                                                                                     | Part No.            | 14D180L~182K                                                                          |
|                                                                                     | Standard for safety | UL/ VDE/ CQC                                                                          |
|                                                                                     | Date Code           | Y: Year    M: Month                                                                   |
|                                                                                     | J                   | High surge                                                                            |
|                                                                                     | E*/ S*/ Y*          | 4KV/2KA / 6KV/3KA / 10KV/5KA                                                          |

## TAPING AND PACKAGING SPECIFICATION OF LEADED VARISTORS

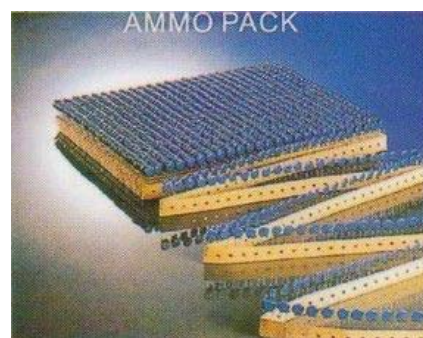


| Ref. | Dimensions                      |      |      |        |       |       |
|------|---------------------------------|------|------|--------|-------|-------|
|      | Millimeters                     |      |      | Inches |       |       |
|      | Min.                            | Typ. | Max. | Min.   | Typ.  | Max.  |
| D    | Refer to "Dimensional drawings" |      |      |        |       |       |
| T    | Refer to "Dimensional drawings" |      |      |        |       |       |
| d    | 0.75                            | 0.8  | 0.85 | 0.03   | 0.031 | 0.033 |
| P0   | 12.4                            | 12.7 | 13.0 | 0.49   | 0.5   | 0.51  |
| P1   | 8.15                            | 8.95 | 9.75 | 0.32   | 0.35  | 0.38  |
| F    | 6.7                             | 7.5  | 8.3  | 0.26   | 0.30  | 0.33  |
| Δh   | Depends on T                    |      |      |        |       |       |
| Δp   |                                 | 0    | 2.0  |        | 0     | 0.079 |
| W    | 17.5                            | 18.0 | 18.5 | 0.69   | 0.71  | 0.73  |
| W0   | 11.0                            |      |      | 0.43   |       |       |
| W1   | 8.5                             | 9.0  | 9.75 | 0.33   | 0.35  | 0.37  |
| W2   |                                 |      | 3.0  |        |       | 0.12  |
| H    | 18.0                            | 18.0 | 18.2 | 0.71   | 0.71  | 0.72  |
| H0   | 15.5                            | 16.0 | 16.5 | 0.61   | 0.63  | 0.65  |
| H1   |                                 |      | 45.0 |        |       | 1.77  |
| D0   | 3.8                             | 4.0  | 4.2  | 0.15   | 0.16  | 0.17  |
| t    |                                 |      | 0.9  |        |       | 0.04  |
| L    |                                 |      | 11.0 |        |       | 0.43  |

- 1) The value of H applies only to unkinked types
- 2) H<sub>0</sub> = 18 mm upon request applies only to kinked types.

## - Taping mode

| Packing | Dimensions | Symbol | 14D         |
|---------|------------|--------|-------------|
| AMMO    |            | LP     | 335mm       |
|         |            | WP     | 243mm       |
|         |            | HP     | 50mm        |
|         |            | Carton | 355×260×537 |
| REEL    |            | RD     | 340mm       |
|         |            | RD1    | 30±0.5mm    |
|         |            | RW     | 51mm        |
|         |            | RW1    | 56mm        |
|         |            | LP     | 345mm       |
|         |            | WP     | 345mm       |
|         |            | HP     | 65mm        |
|         |            | Carton | 360×360×480 |

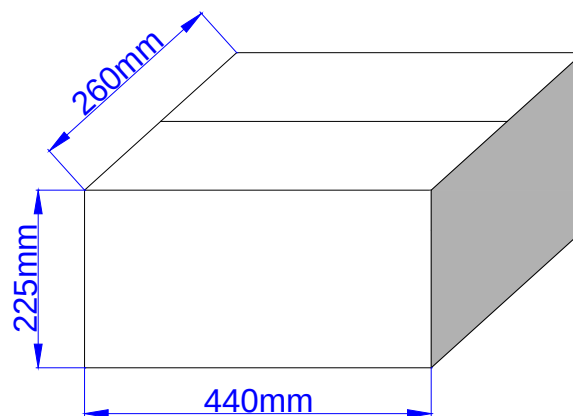


## - Quantity of taping packing(pcs)

| Dimension | Part No.     | Ammo |        | Reel |        |
|-----------|--------------|------|--------|------|--------|
|           |              | Box  | Carton | Box  | Carton |
| 14D       | 180L to 471K | 1000 | 10000  | 500  | 2000   |
| 14D       | 511K to 821K | 800  | 8000   | 300  | 1200   |

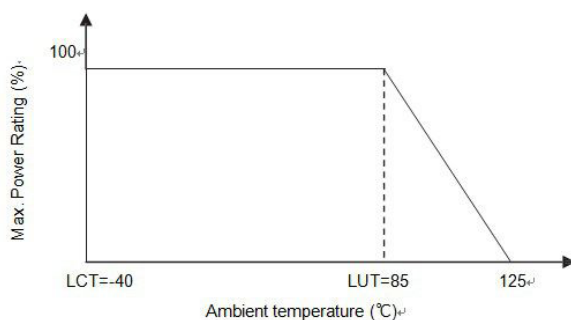
## - Quantity of bulk packing method (pcs)

| Dimension       | Part No.     | Bag | Small Carton | Carton |
|-----------------|--------------|-----|--------------|--------|
| 14D             | 180L to 681K | 500 | 3000         | 6000   |
| 14D (short leg) | 180L to 681K | 500 | 4000         | 8000   |
| 14D             | 751L to 182K | 500 | 2500         | 5000   |
| 14D (short leg) | 751L to 182K | 500 | 3000         | 6000   |

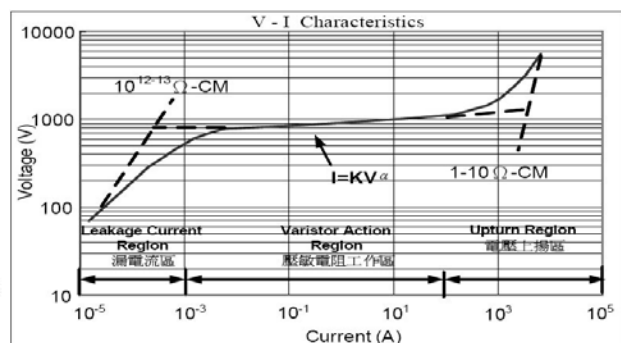


## VARISTOR CHARACTERISTICS CURVE

Power derating curve

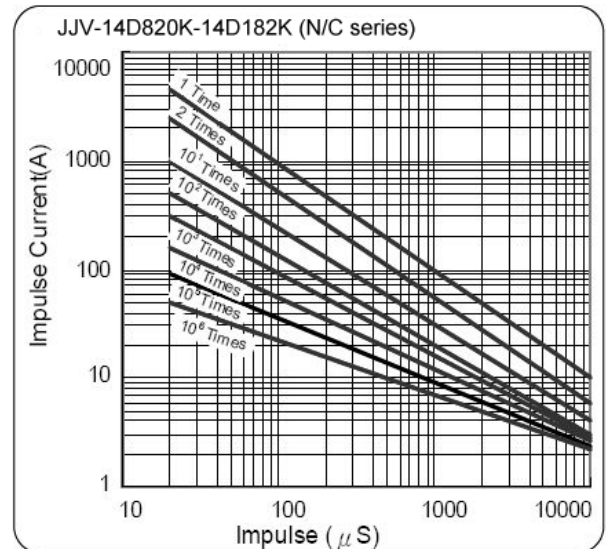
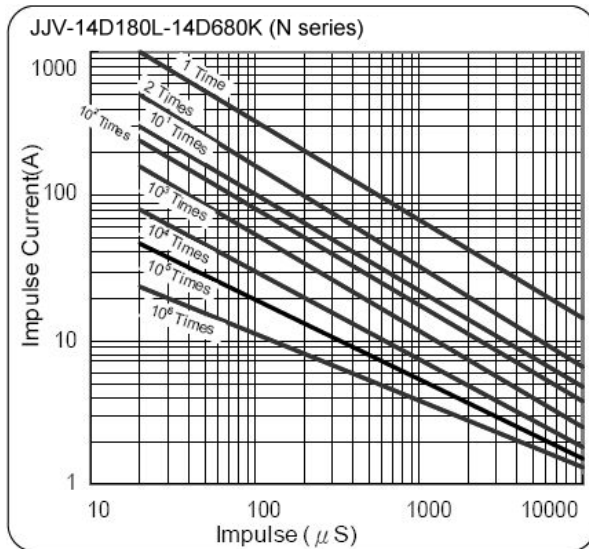


Varistor V-I characteristics curve

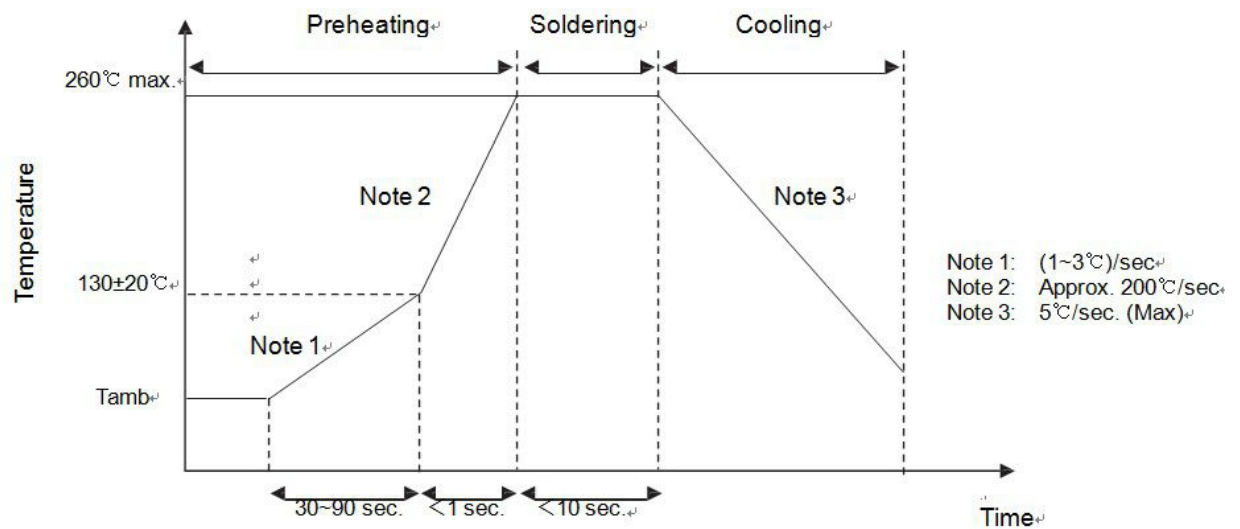




Surge life time ratings N (standard) / K (low capacitance) series

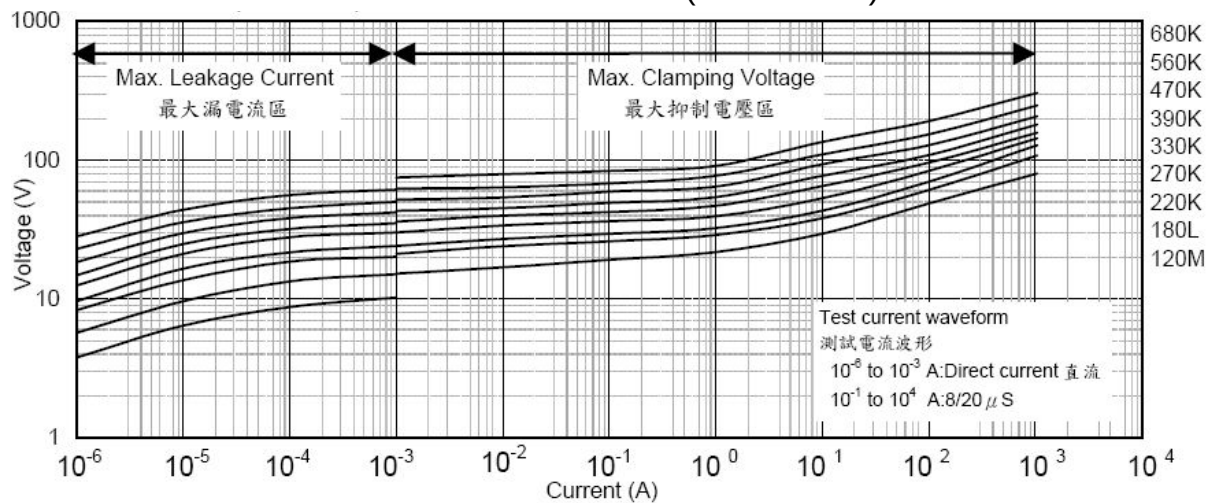


Soldering recommendation - wave soldering profile

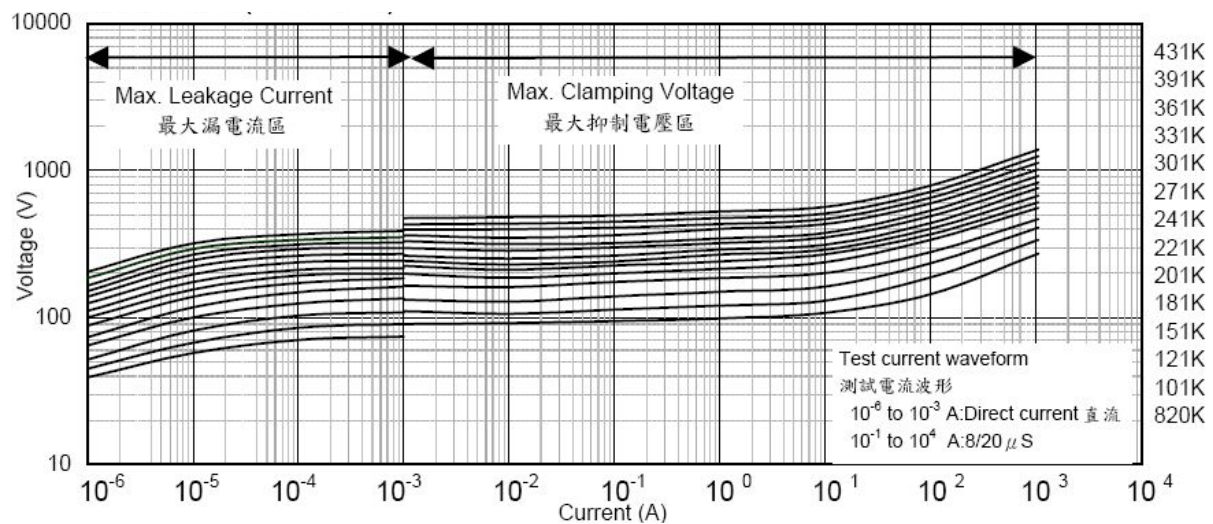


## V-I curves

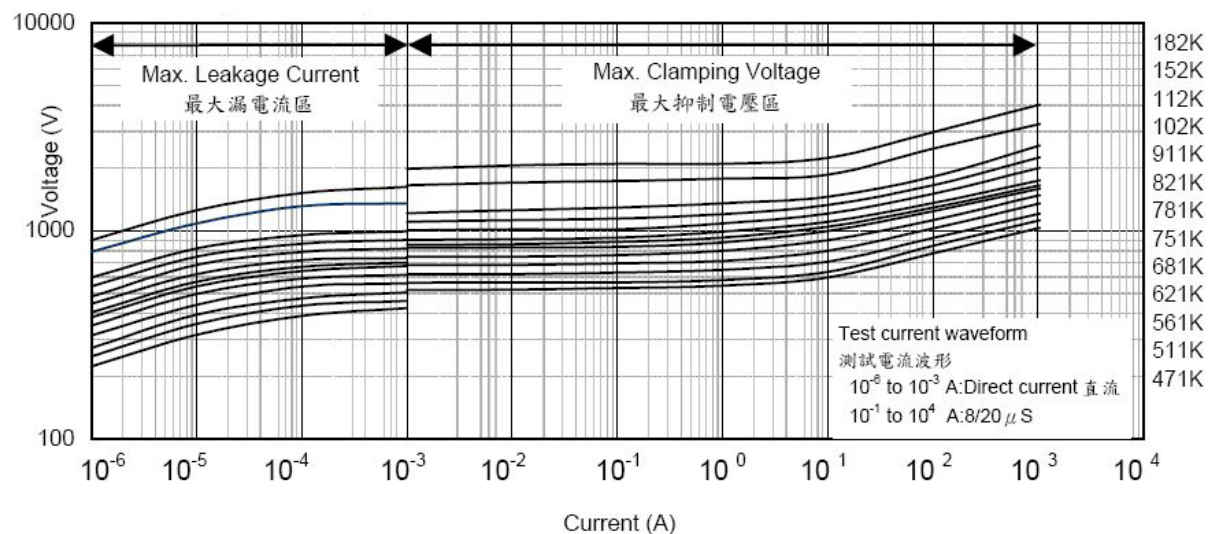
JJV-14D180L-14D680K (N/J/S series)



JJV-14D820K-14D431K (N/J/S series)



JJV-14D471K-14D182K (N/J/S series)





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