

Varistor Type MYG

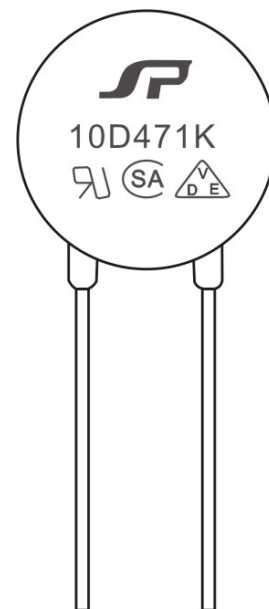
Type MYG Varistors are made of semiconductor ceramic materials composed mainly of zinc oxide. They have non-linear resistance that changes as a function of applied voltage. It has small size, high current capacity, and high protection level.

Features

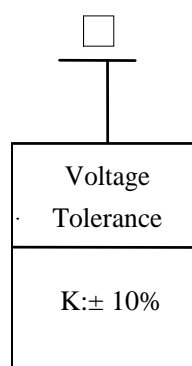
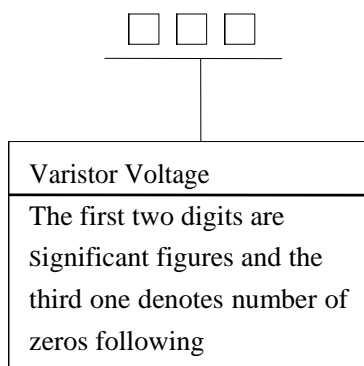
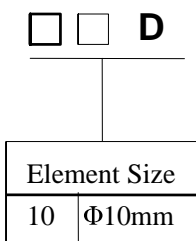
- > Wide Varistor voltage range (18V~1100V)
- > Excellent non-linearity and protection level
- > Large withstanding surge current
- > Fast response ($\leq 20\text{ns}$)

Recommended Applications

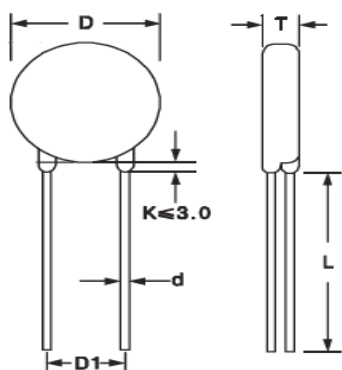
- > Protection of semiconductors
- > Surge protection of consumer equipment
- > Surge protection of communication, measuring or controller instrument
- > Relay or electromagnetic Valve surge absorption



Explanation of Part Numbers



Dimension



| Range of voltage (V) | Dimensions(mm) | | | | |
|----------------------|----------------|---------|-------|-------|---------|
| | D max | T max | L min | d±0.1 | D1± 1.0 |
| 18 - 68 | 13.5 | 3.6~5.4 | 25 | 0.8 | 7.5 |
| 81 - 1100 | 13.5 | 4.3~9.7 | 25 | 0.8 | 7.5 |

Specification and Electrical Characteristics

| Part Number | Maximum Allowable Voltage | | Maximum Energy | Withstanding Surge Current 8/20 μ s | | Rated Wattage | Varistor Voltage | Maximum Clamping Voltage |
|-------------|---------------------------|--------|--------------------|-----------------------------------------|--------|---------------|----------------------|--------------------------|
| | Acrms (V) | DC (V) | 10/100 μ S (J) | 1 time | 2times | (W) | V _{1mA} (V) | V _{25A} (V) |
| | | | | (A) | | | | |
| 10D112K | 680 | 895 | 133.0 | 2500 | 1250 | 0.4 | 1100(990-1210) | 1815 |
| 10D102K | 625 | 825 | 133.0 | | | | 1000(900-1100) | 1650 |
| 10D911K | 550 | 745 | 133.0 | | | | 910(819-1001) | 1500 |
| 10D821K | 510 | 670 | 124.6 | | | | 820(738-902) | 1355 |
| 10D781K | 485 | 640 | 124.6 | | | | 780(702-858) | 1290 |
| 10D751K | 460 | 615 | 124.6 | | | | 750(675-825) | 1240 |
| 10D681K | 420 | 560 | 102.2 | | | | 680(612-748) | 1120 |
| 10D621K | 385 | 505 | 102.2 | | | | 620(558-682) | 1025 |
| 10D561K | 350 | 460 | 99.4 | | | | 560(504-616) | 920 |
| 10D511K | 320 | 415 | 99.4 | | | | 510(459-561) | 845 |
| *10D471K | 300 | 385 | 99.4 | | | | 470(423-517) | 775 |
| 10D431K | 275 | 350 | 88.2 | | | | 430(387-473) | 710 |
| 10D391K | 250 | 320 | 81.2 | | | | 390(351-429) | 650 |
| 10D361K | 230 | 300 | 74.2 | | | | 360(324-396) | 595 |
| 10D331K | 210 | 275 | 68.6 | | | | 330(297-363) | 550 |
| 10D301K | 190 | 250 | 63.0 | | | | 300(270-330) | 505 |
| *10D271K | 175 | 225 | 57.4 | | | | 270(243-297) | 455 |
| 10D241K | 150 | 200 | 50.4 | | | | 240(216-264) | 395 |
| 10D221K | 140 | 180 | 46.2 | | | | 220(198-242) | 360 |
| 10D201K | 130 | 170 | 42.0 | | | | 200(180-220) | 330 |
| 10D181K | 115 | 150 | 30.8 | | | | 180(162-198) | 300 |
| 10D151K | 95 | 125 | 25.2 | | | | 150(135-165) | 250 |
| 10D121K | 75 | 100 | 21.0 | | | | 120(108-132) | 200 |
| 10D101K | 60 | 85 | 18.2 | 100(90-110) | 165 | | | |
| *10D820K | 50 | 65 | 16.8 | 82(74-90) | 135 | | | |
| 10D680K | 40 | 56 | 15.4 | 500 | 250 | 0.05 | 68(61-75) | *135 |
| 10D560K | 35 | 45 | 12.9 | | | | 56(50-62) | *110 |
| *10D470K | 30 | 38 | 10.8 | | | | 47(42-52) | *93 |
| 10D390K | 25 | 31 | 9.1 | | | | 39(35-43) | *77 |
| 10D330K | 20 | 26 | 7.4 | | | | 33(30-36) | *65 |
| 10D270K | 17 | 22 | 6.0 | | | | 27(24-30) | *53 |
| 10D220K | 14 | 18 | 4.5 | | | | 22(20-24) | *43 |
| 10D180K | 11 | 14 | 2.8 | | | | 18(15-21) | *38 |

- Note:**
- 1、* Stand for commonly used models
 - 2、Varistor voltage is measured at 0.1 mA for 05D, and at 1 mA for 07D, 10D, 14D, 20D, respectively.
 - 3、Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage Temperature Range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$