

7D系列 HEL 压敏电阻 HEL VARISTOR WITH 7MM DIAMETER

| 型号规格 Part No. | 压敏电压 Varistor Voltage | | 最大允许 使用电压 Maximum Allowable Voltage | | 最大限制 电压 Maximum Clamping Voltage | | 通流容量 Withstanding Surge Current (8/20 μ s) 1 time | | 静态功率 Rated Wattage | | 能量容量 Energy (2ms) | | 静态电容 容 Typical Capacitance |
|------------------|--------------------------|-----------|---|------------------|--|--------------------|---|----------|--------------------------|--------------|-------------------------|--|-------------------------------------|
| | V_{1mA} (V) | AC (V) | DC (V) | V_{10A} (V) | K class (A) | KJ class (A) | (W) | K (J) | KJ (J) | 1kHz (PF) | | | |
| HEL-7D180 | 18 | (16-20) | 11 | 14 | · 38 | 250 | 500 | 0.02 | 0.8 | 0.9 | 3,500 | | |
| HEL-7D220 | 22 | (20-24) | 14 | 18 | · 43 | 250 | 500 | 0.02 | 0.9 | 1.2 | 2,800 | | |
| HEL-7D270 | 27 | (24-30) | 17 | 22 | · 53 | 250 | 500 | 0.02 | 1.1 | 1.4 | 2,200 | | |
| HEL-7D330 | 33 | (30-36) | 20 | 26 | · 65 | 250 | 500 | 0.02 | 1.4 | 1.7 | 1,800 | | |
| HEL-7D390 | 39 | (35-43) | 25 | 31 | · 77 | 250 | 500 | 0.02 | 1.6 | 2.0 | 1,450 | | |
| HEL-7D470 | 47 | (42-52) | 30 | 38 | · 93 | 250 | 500 | 0.02 | 2.0 | 2.5 | 1,150 | | |
| HEL-7D560 | 56 | (50-62) | 35 | 45 | · 110 | 250 | 500 | 0.02 | 2.4 | 2.9 | 1,050 | | |
| HEL-7D680 | 68 | (61-75) | 40 | 56 | · 135 | 250 | 500 | 0.02 | 2.9 | 3.6 | 970 | | |
| HEL-7D820 | 82 | (74-90) | 50 | 65 | 135 | 1200 | 1750 | 0.25 | 3.4 | 4.3 | 930 | | |
| HEL-7D101 | 100 | (90-110) | 60 | 85 | 165 | 1200 | 1750 | 0.25 | 4.2 | 5.3 | 860 | | |
| HEL-7D121 | 120 | (108-132) | 75 | 100 | 200 | 1200 | 1750 | 0.25 | 5.0 | 6.3 | 670 | | |
| HEL-7D151 | 150 | (135-165) | 95 | 125 | 250 | 1200 | 1750 | 0.25 | 6.3 | 7.9 | 490 | | |
| HEL-7D181 | 180 | (162-198) | 115 | 150 | 300 | 1200 | 1750 | 0.25 | 7.6 | 9.5 | 330 | | |
| HEL-7D201 | 200 | (180-220) | 130 | 170 | 340 | 1200 | 1750 | 0.25 | 8.4 | 10.5 | 240 | | |
| HEL-7D221 | 220 | (198-242) | 140 | 180 | 360 | 1200 | 1750 | 0.25 | 9.2 | 11.6 | 190 | | |
| HEL-7D241 | 240 | (216-264) | 150 | 200 | 395 | 1200 | 1750 | 0.25 | 10.1 | 12.6 | 165 | | |
| HEL-7D271 | 270 | (243-297) | 175 | 225 | 455 | 1200 | 1750 | 0.25 | 11.3 | 14.2 | 150 | | |
| HEL-7D301 | 300 | (270-330) | 195 | 250 | 505 | 1200 | 1750 | 0.25 | 12.6 | 15.8 | 135 | | |
| HEL-7D331 | 330 | (297-363) | 210 | 275 | 550 | 1200 | 1750 | 0.25 | 13.9 | 17.3 | 130 | | |
| HEL-7D361 | 360 | (324-396) | 230 | 300 | 595 | 1200 | 1750 | 0.25 | 15.1 | 18.9 | 125 | | |
| HEL-7D391 | 390 | (351-429) | 250 | 320 | 650 | 1200 | 1750 | 0.25 | 16.4 | 20.5 | 105 | | |
| HEL-7D431 | 430 | (387-473) | 275 | 350 | 710 | 1200 | 1750 | 0.25 | 18.1 | 22.6 | 100 | | |
| HEL-7D471 | 470 | (423-517) | 300 | 385 | 775 | 1200 | 1750 | 0.25 | 19.7 | 24.7 | 90 | | |
| HEL-7D511 | 510 | (459-561) | 320 | 418 | 842 | 1200 | 1750 | 0.25 | 21.4 | 26.8 | 80 | | |
| HEL-7D561 | 560 | (504-616) | 350 | 460 | 920 | 1200 | 1750 | 0.25 | 23.5 | 29.4 | 75 | | |
| HEL-7D621 | 620 | (558-682) | 385 | 505 | 1025 | 1200 | 1750 | 0.25 | 26.0 | 32.6 | 70 | | |
| HEL-7D681 | 680 | (612-748) | 420 | 560 | 1120 | 1200 | 1750 | 0.25 | 28.6 | 35.7 | 65 | | |
| HEL-7D751 | 750 | (675-825) | 460 | 615 | 1240 | 1200 | 1750 | 0.25 | 31.5 | 39.4 | 61 | | |
| HEL-7D781 | 780 | (702-858) | 485 | 640 | 1290 | 1200 | 1750 | 0.25 | 32.8 | 41.0 | 54 | | |
| HEL-7D821 | 820 | (738-902) | 510 | 670 | 1355 | 1200 | 1750 | 0.25 | 34.4 | 43.1 | 48 | | |

• The clamping voltage from 180K to 680K is tested with current 2.5A.

Note: The energy (10/1000 μ s) is about 1.4 times of energy (2ms).

• 180K至680K最大限制电压测试电流是2.5A.

注: 10/1000 μ s的能量耐量值约为2ms能量耐量值的1.4倍

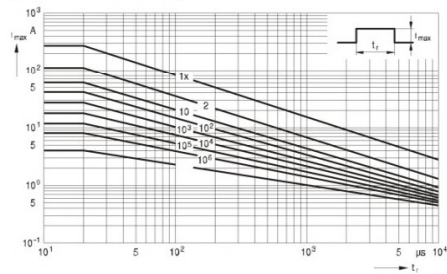
降额曲线图 Derating curves

横轴是冲击时间即浪涌型宽度, 纵轴是冲击电流峰值,

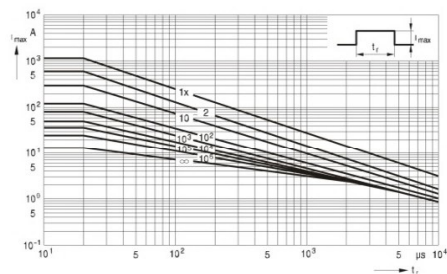
线上的数字是冲击次数;

Maximum surge current $I_{max} = f(t_r, \text{pulse train})$

HEL-7D180-680K



HEL-7D820-751K



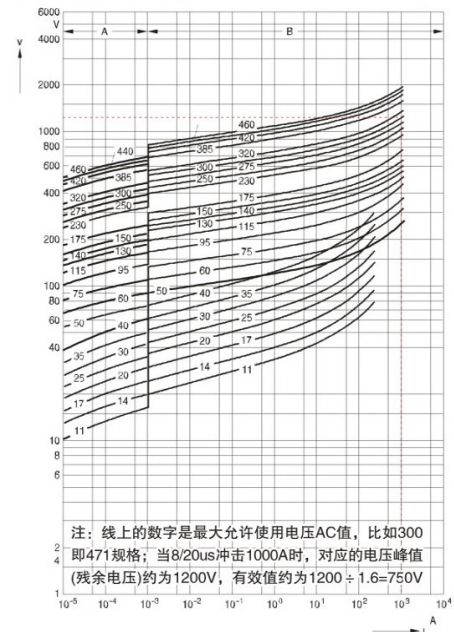
伏安特性图 v/i characteristics

A区是泄漏电流区, A = Leakage current,

B区是冲击电流与限制电压对应区

B = Protection level for worst-case varistor tolerances

HEL-7D180-751K



产品尺寸 DIMENSION

单位Unit: mm

| 产品外型 Product Shape | 系列 Series | 压敏电压 Varistor Voltage | 厚度 Tmax |
|-----------------------|--------------|--------------------------|------------|
| | 7D | 18V-39V | 5.5 |
| | | 47V-68V | 6.0 |
| | | 82V-150V | 6.5 |
| | | 180V-270V | 7.0 |
| | | 330V-390V | 7.5 |
| | | 430V-560V | 8.0 |
| | | 620V-780V | 8.5 |
| | | 820V | 9.0 |

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