

Z21D Series

Specifications

| Part No. | Varistor Voltage | Maximum Allowable Voltage | | Clamping Voltage (max.) | Rated Power | Maximum Energy | | Maximum Peak Current (8/20 μ s) | | Capacitance (max.) 1kHz |
|-----------|------------------|---------------------------|-------|-------------------------|-------------|-------------------|-------|-------------------------------------|---------|-------------------------|
| | | AC _{rms} (V) | DC(V) | | | (10/1000 μ s) | (2ms) | 1 time | 2 times | |
| | | | | | | | | | | |
| Z21D180 | 18(16-20) | 11 | 14 | 36 at 20A | 0.2 | 13 | 12 | 3000 | 2000 | 40000 |
| Z21D220 | 22(20-24) | 14 | 18 | 43 | 0.2 | 16 | 14 | 3000 | 2000 | 30000 |
| Z21D270 | 27(24-30) | 17 | 22 | 53 | 0.2 | 19 | 17 | 3000 | 2000 | 24500 |
| Z21D330 | 33(30-36) | 20 | 26 | 65 | 0.2 | 24 | 21 | 3000 | 2000 | 20000 |
| Z21D390 | 39(35-43) | 25 | 31 | 77 | 0.2 | 28 | 25 | 3000 | 2000 | 13800 |
| Z21D470 | 47(42-52) | 30 | 38 | 93 | 0.2 | 34 | 30 | 3000 | 2000 | 13500 |
| Z21D560 | 56(50-62) | 35 | 45 | 110 | 0.2 | 41 | 36 | 3000 | 2000 | 12200 |
| Z21D680 | 68(61-75) | 40 | 56 | 135 | 0.2 | 49 | 44 | 3000 | 2000 | 11500 |
| * Z21D820 | 82(74-90) | 50 | 65 | 135 at 100A | 1.0 | 56 | 40 | 10000 | 6500 | 7500 |
| * Z21D101 | 100(90-110) | 60 | 85 | 165 | 1.0 | 70 | 50 | 10000 | 6500 | 6500 |
| * Z21D121 | 120(108-132) | 75 | 100 | 200 | 1.0 | 85 | 60 | 10000 | 6500 | 5500 |
| * Z21D151 | 150(135-165) | 95 | 125 | 250 | 1.0 | 106 | 75 | 10000 | 6500 | 4500 |
| * Z21D201 | 200(185-225) | 130 | 170 | 340 | 1.0 | 140 | 100 | 10000 | 6500 | 1700 |
| * Z21D221 | 220(198-242) | 140 | 180 | 360 | 1.0 | 155 | 110 | 10000 | 6500 | 1600 |
| * Z21D241 | 240(216-264) | 150 | 200 | 395 | 1.0 | 168 | 120 | 10000 | 6500 | 1500 |
| * Z21D271 | 270(247-303) | 175 | 225 | 455 | 1.0 | 190 | 135 | 10000 | 6500 | 1300 |
| * Z21D331 | 330(297-363) | 210 | 270 | 545 | 1.0 | 228 | 160 | 10000 | 6500 | 1100 |
| * Z21D361 | 360(324-396) | 230 | 300 | 595 | 1.0 | 255 | 180 | 10000 | 6500 | 1100 |
| * Z21D391 | 390(351-429) | 250 | 320 | 650 | 1.0 | 275 | 195 | 10000 | 6500 | 1100 |
| * Z21D431 | 430(387-473) | 275 | 350 | 710 | 1.0 | 303 | 215 | 10000 | 6500 | 1000 |
| * Z21D471 | 470(423-517) | 300 | 385 | 775 | 1.0 | 350 | 250 | 10000 | 6500 | 900 |
| * Z21D511 | 510(459-561) | 320 | 410 | 845 | 1.0 | 382 | 273 | 10000 | 6500 | 800 |
| * Z21D561 | 560(504-616) | 350 | 450 | 930 | 1.0 | 382 | 273 | 7500 | 6500 | 750 |
| * Z21D681 | 680(612-748) | 420 | 560 | 1120 | 1.0 | 382 | 273 | 7500 | 6500 | 650 |
| * Z21D751 | 750(675-825) | 460 | 615 | 1240 | 1.0 | 420 | 300 | 7500 | 6500 | 600 |
| * Z21D821 | 820(738-902) | 510 | 670 | 1355 | 1.0 | 460 | 325 | 7500 | 6500 | 530 |
| * Z21D911 | 910(819-1001) | 550 | 745 | 1500 | 1.0 | 510 | 360 | 7500 | 6500 | 500 |
| * Z21D102 | 1000(900-1100) | 625 | 825 | 1650 | 1.0 | 565 | 400 | 7500 | 6500 | 450 |

1. Operating temperature range: -40 to 85°C * UL 1449 approved model
 2. Storage temperature range: -40 to 125°C

Dimensions

Z5D

Z7D

Z10D

Z15D

Z21D

Crimped Leads and Taped
 Z5D □□□ T4C
 Z7D □□□ T4C

Straight Leads and Taped
 Z5D □□□ T4D
 Z7D □□□ T4D

*Dimension "T": Conforms to each individual specification
 *Packing quantity: 1000pcs/BOX

| Symbol | Type I | Symbol | Type I |
|----------------|--|-----------------|------------|
| P | 12.7±1.0 | W ₀ | 5.0min |
| P ₀ | 12.7±0.3 | W ₁ | 9.0±0.5 |
| P ₁ | 3.85±0.70 | W ₂ | 3max |
| P ₂ | 6.35±1.30 | H | Approx. 22 |
| φd | 0.60 ^{+0.08} _{-0.05} | H ₀ | 17.0±0.5 |
| F | 5.0±0.5 | φD ₀ | φ4.0±0.2 |
| Δh | 0±2 | t | 0.6±0.3 |
| W | 18.0 ^{+1.0} _{-0.5} | L | 11max |
| φD | Z5D: 7max, Z7D: 8.5max | | |

*Dimension "T": Conforms to each individual specification
 *Packing quantity: 1000pcs/BOX

| Symbol | Type I | Symbol | Type I |
|----------------|--|-----------------|---------------------------|
| P | 12.7±1.0 | W ₀ | 5.0min |
| P ₀ | 12.7±0.3 | W ₁ | 9.0±0.5 |
| P ₁ | 3.85±0.70 | W ₂ | 3max |
| P ₂ | 6.35±1.30 | H | Approx. 20 |
| φd | 0.60 ^{+0.08} _{-0.05} | H ₀ | 17.0±0.5 |
| F | 5.0±0.5 | φD ₀ | φ4.0±0.2 |
| Δh | 0±2 | t | 0.6±0.3 |
| W | 18.0 ^{+1.0} _{-0.5} | L | 11max |
| φD | | | Z5D: 7max, Z7D: 8.5max |

Unit(mm)