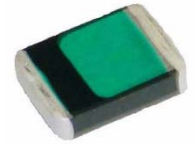


Description:

The DV Series is a line of surface mount varistors designed to protect electronic equipment against high voltage surges in the medium voltage region. They offer excellent energy absorption due to improved energy volume distribution and power dissipation. Compared to other medium voltage SMD varistors, DV Series have a very low profile construction.

DV varistors are designed exclusively for surface mounting and are available in two model sizes. These transient voltage suppressors cover operating voltages from 11V to 300V (V_{rms}) featuring maximum surge currents from 100A to 1200A.



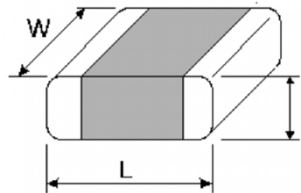
Features:

- AC operating voltage (V_{rms}) from 11V to 300V
- DC operating voltage (V_{dc}) from 14V to 385V
- Insensitive to water cleaning procedures and to humidity according to the climate category 55/125/56
- +125°C continuous operating temperature
- Low profile dimensions and weight savings on printed circuit board
- 2 model sizes 3225 and 4032
- Lead-free component
- Ultra-low inductance, leadless chip guarantees the fastest response time to transient surges
- Broad range of current and energy handling capability
- No plastic coating guarantees excellent flammability rating

General Technical Data

| | | |
|-------------------------------------------|------------------------------------------------------------------|--------------------------------|
| Climatic Category | 55 / 125 / 56 | In accordance with IEC 60068-1 |
| Operating Temperature | -55°C to +125°C | In accordance with CECC 42 000 |
| Storage Temperature Range | -55°C to +150°C | |
| Threshold Voltage Temperature Coefficient | ≤0.05% / °C | |
| Response Time | < 5 ns | |
| Ag/Pd Terminations | Recommended and suitable for Pb-containing soldering | |
| Nickel Barrier Terminations | Recommended and suitable for Pb-containing and Pb-free soldering | |

Device Ratings and Dimensions



| Part Number | V_{RMS} (volts) | V_{DC} (volts) | V_B (volts) | V_C (volts) | I_C (amps) | W_{MAX} (joules) | P_{MAX} (watts) | I_P (amps) | C_{TYP} (pF) | L (mm) | W (mm) | t (mm) |
|-------------|----------------------|---------------------|------------------|------------------|-----------------|-----------------------|----------------------|-----------------|-------------------|-----------|-----------|-----------|
| DV11K3225T | 11 | 14 | 18 | 36 | 2.5 | 0.6 | 0.01 | 100 | 2,500 | 8.0 | 6.3 | 1.4 |
| DV11K4032T | 11 | 14 | 18 | 36 | 5.0 | 1.1 | 0.02 | 250 | 4,300 | 10.0 | 8.0 | 1.4 |
| DV14K3225T | 14 | 18 | 22 | 43 | 2.5 | 0.7 | 0.01 | 100 | 2,200 | 8.0 | 6.3 | 1.6 |
| DV14K4032T | 14 | 18 | 22 | 43 | 5.0 | 1.3 | 0.02 | 250 | 3,500 | 10.0 | 8.0 | 1.6 |
| DV17K3225T | 17 | 22 | 27 | 53 | 2.5 | 0.9 | 0.01 | 100 | 1,750 | 8.0 | 6.3 | 1.8 |
| DV17K4032T | 17 | 22 | 27 | 53 | 5.0 | 1.6 | 0.02 | 250 | 3,000 | 10.0 | 8.0 | 1.8 |
| DV20K3225T | 20 | 26 | 33 | 65 | 2.5 | 1.1 | 0.01 | 100 | 1,650 | 8.0 | 6.3 | 1.8 |
| DV20K4032T | 20 | 26 | 33 | 65 | 5.0 | 2.0 | 0.02 | 250 | 2,300 | 10.0 | 8.0 | 1.8 |
| DV25K3225T | 25 | 31 | 39 | 77 | 2.5 | 1.2 | 0.01 | 100 | 1,500 | 8.0 | 6.3 | 2.0 |
| DV25K4032T | 25 | 31 | 39 | 77 | 5.0 | 2.4 | 0.02 | 250 | 1,900 | 10.0 | 8.0 | 2.0 |
| DV30K3225T | 30 | 38 | 47 | 93 | 2.5 | 1.5 | 0.01 | 100 | 1,000 | 8.0 | 6.3 | 2.0 |
| DV30K4032T | 30 | 38 | 47 | 93 | 5.0 | 2.8 | 0.02 | 250 | 1,600 | 10.0 | 8.0 | 2.0 |

Device Ratings and Dimensions

| Part Number | V _{RMS} (volts) | V _{DC} (volts) | V _B (volts) | V _C (volts) | I _C (amps) | W _{MAX} (joules) | P _{MAX} (watts) | I _P (amps) | C _{TYP} (pF) | L (mm) | W (mm) | t (mm) |
|-------------|-----------------------------|----------------------------|---------------------------|---------------------------|--------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|-----------|-----------|-----------|
| DV20K4032T | 20 | 26 | 33 | 65 | 5.0 | 2.0 | 0.02 | 250 | 2,300 | 10.0 | 8.0 | 1.8 |
| DV25K3225T | 25 | 31 | 39 | 77 | 2.5 | 1.2 | 0.01 | 100 | 1,500 | 8.0 | 6.3 | 2.0 |
| DV25K4032T | 25 | 31 | 39 | 77 | 5.0 | 2.4 | 0.02 | 250 | 1,900 | 10.0 | 8.0 | 2.0 |
| DV30K3225T | 30 | 38 | 47 | 93 | 2.5 | 1.5 | 0.01 | 100 | 1,000 | 8.0 | 6.3 | 2.0 |
| DV30K4032T | 30 | 38 | 47 | 93 | 5.0 | 2.8 | 0.02 | 250 | 1,600 | 10.0 | 8.0 | 2.0 |
| DV35K3225T | 35 | 45 | 56 | 110 | 2.5 | 1.8 | 0.01 | 100 | 800 | 8.0 | 6.3 | 2.0 |
| DV35K4032T | 35 | 45 | 56 | 110 | 5.0 | 3.4 | 0.02 | 250 | 1,400 | 10.0 | 8.0 | 2.0 |
| DV40K3225T | 40 | 56 | 68 | 135 | 2.5 | 2.2 | 0.01 | 100 | 700 | 8.0 | 6.3 | 2.0 |
| DV40K4032T | 40 | 56 | 68 | 135 | 5.0 | 4.1 | 0.02 | 250 | 1,200 | 10.0 | 8.0 | 2.0 |
| DV50K3225T | 50 | 65 | 82 | 135 | 5.0 | 2.5 | 0.10 | 400 | 400 | 8.2 | 6.3 | 2.0 |
| DV50K4032T | 50 | 65 | 82 | 135 | 10.0 | 6.5 | 0.25 | 1,200 | 580 | 10.0 | 8.0 | 2.0 |
| DV60K3225T | 60 | 85 | 100 | 165 | 5.0 | 3.0 | 0.10 | 400 | 300 | 8.2 | 6.3 | 2.0 |
| DV60K4032T | 60 | 85 | 100 | 165 | 10.0 | 7.0 | 0.25 | 1,200 | 530 | 10.0 | 8.0 | 2.0 |
| DV75K3225T | 75 | 100 | 120 | 200 | 5.0 | 4.0 | 0.10 | 400 | 240 | 8.2 | 6.3 | 2.0 |
| DV75K4032T | 75 | 100 | 120 | 200 | 10.0 | 9.0 | 0.25 | 1,200 | 480 | 10.0 | 8.0 | 2.0 |
| DV95K3225T | 95 | 125 | 150 | 250 | 5.0 | 6.0 | 0.10 | 400 | 210 | 8.2 | 6.3 | 2.0 |
| DV95K4032T | 95 | 125 | 150 | 250 | 10.0 | 11.0 | 0.25 | 1,200 | 310 | 10.0 | 8.0 | 2.0 |
| DV115K3225T | 115 | 150 | 180 | 300 | 5.0 | 6.5 | 0.10 | 400 | 200 | 8.2 | 6.3 | 2.0 |
| DV115K4032T | 115 | 150 | 180 | 300 | 10.0 | 13.0 | 0.25 | 1,200 | 270 | 10.0 | 8.0 | 2.0 |
| DV130K3225T | 130 | 170 | 205 | 340 | 5.0 | 7.0 | 0.10 | 400 | 190 | 8.2 | 6.3 | 2.0 |
| DV130K4032T | 130 | 170 | 205 | 340 | 10.0 | 15.0 | 0.25 | 1,200 | 250 | 10.0 | 8.0 | 2.0 |
| DV140K3225T | 140 | 180 | 220 | 360 | 5.0 | 7.5 | 0.10 | 400 | 180 | 8.2 | 6.3 | 2.0 |
| DV140K4032T | 140 | 180 | 220 | 360 | 10.0 | 18.0 | 0.25 | 1,200 | 240 | 10.0 | 8.0 | 2.0 |
| DV150K3225T | 150 | 200 | 240 | 395 | 5.0 | 9.0 | 0.10 | 400 | 150 | 8.2 | 6.3 | 2.0 |
| DV150K4032T | 150 | 200 | 240 | 395 | 10.0 | 18.5 | 0.25 | 1,200 | 220 | 10.0 | 8.0 | 2.0 |
| DV175K3225T | 175 | 225 | 270 | 455 | 5.0 | 9.5 | 0.10 | 400 | 130 | 8.2 | 6.3 | 2.0 |
| DV175K4032T | 175 | 225 | 270 | 455 | 10.0 | 21.0 | 0.25 | 1,200 | 200 | 10.0 | 8.0 | 2.0 |
| DV230K3225T | 230 | 300 | 360 | 595 | 5.0 | 10.0 | 0.10 | 400 | 110 | 8.2 | 6.3 | 2.0 |
| DV230K4032T | 230 | 300 | 360 | 595 | 10.0 | 23.0 | 0.25 | 1,200 | 170 | 10.0 | 8.0 | 2.0 |
| DV250K3225T | 250 | 320 | 390 | 650 | 5.0 | 11.0 | 0.10 | 400 | 100 | 8.2 | 6.3 | 2.0 |
| DV250K4032T | 250 | 320 | 390 | 650 | 10.0 | 25.0 | 0.25 | 1,200 | 160 | 10.0 | 8.0 | 2.0 |
| DV275K3225T | 275 | 350 | 430 | 710 | 5.0 | 13.0 | 0.10 | 400 | 90 | 8.2 | 6.3 | 2.0 |
| DV275K4032T | 275 | 350 | 430 | 710 | 10.0 | 29.0 | 0.25 | 1,200 | 150 | 10.0 | 8.0 | 2.0 |
| DV300K3225T | 300 | 385 | 470 | 775 | 5.0 | 15.0 | 0.10 | 400 | 85 | 8.2 | 6.3 | 2.0 |
| DV300K4032T | 300 | 385 | 470 | 775 | 10.0 | 30.0 | 0.25 | 1,200 | 140 | 10.0 | 8.0 | 2.0 |

How to Order

