

Leaded Varistors

Standard Series

Construction

- Round varistor element, leaded
- Coating: epoxy resin, flame-retardant to UL 94 V-0
- Terminals: tinned copper wire

Features

- Wide operating voltage range 11 ... 1100 V_{RMS}
- No derating up to 85 °C ambient temperature
- PSpice models

Approvals

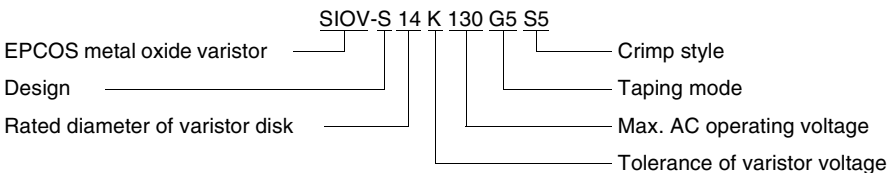
- UL
- CSA (all types ≥ K115)
- SEV
- VDE
- CECC

Taping

- For ordering information see page 206 ff, chapter "Leaded Varistors: Taping"

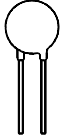
Type designation

Detailed description of coding system on page 39, chapter "General Technical Information"



General technical data

| | | |
|---|-------------------------|----------------------------------|
| Climatic category | 40/85/56 | in accordance with IEC 60068-1 |
| LCT | - 40 °C | |
| UCT | + 85 °C | |
| Damp heat, steady state (93 % r.h., 40 °C) | 56 days | in accordance with IEC 60068-2-3 |
| Operating temperature | - 40 ... + 85 °C | in accordance with CECC 42 000 |
| Storage temperature | - 40 ... + 125 °C | |
| Electric strength | ≥ 2,5 kV _{RMS} | in accordance with CECC 42 000 |
| Insulation resistance | ≥ 10 MΩ | in accordance with CECC 42 000 |
| Response time | < 25 ns | |



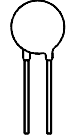
Leaded Varistors

Standard Series

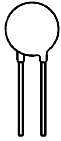
Maximum ratings ($T_A = 85\text{ °C}$)

| Type (untaped) SIOV- | Ordering code | V_{RMS} V | V_{DC} V | i_{max} 8/20 μ s A | W_{max} (2 ms) J | P_{max} W |
|----------------------------|-----------------|----------------|------------------|--------------------------------|--------------------------|----------------|
| S05K11 | B72205S0110K101 | 11 | 14 | 100 | 0,3 | 0,01 |
| S07K11 | B72207S0110K101 | 11 | 14 | 250 | 0,8 | 0,02 |
| S10K11 | B72210S0110K101 | 11 | 14 | 500 | 1,7 | 0,05 |
| S14K11 | B72214S0110K101 | 11 | 14 | 1000 | 3,2 | 0,10 |
| S20K11 | B72220S0110K101 | 11 | 14 | 2000 | 10,0 | 0,20 |
| S05K14 | B72205S0140K101 | 14 | 18 | 100 | 0,4 | 0,01 |
| S07K14 | B72207S0140K101 | 14 | 18 ¹⁾ | 250 | 0,9 | 0,02 |
| S10K14 | B72210S0140K101 | 14 | 18 ¹⁾ | 500 | 2,0 | 0,05 |
| S14K14 | B72214S0140K101 | 14 | 18 ¹⁾ | 1000 | 4,0 | 0,10 |
| S20K14 | B72220S0140K101 | 14 | 18 ¹⁾ | 2000 | 12,0 | 0,20 |
| S05K17 | B72205S0170K101 | 17 | 22 | 100 | 0,5 | 0,01 |
| S07K17 | B72207S0170K101 | 17 | 22 | 250 | 1,1 | 0,02 |
| S10K17 | B72210S0170K101 | 17 | 22 | 500 | 2,5 | 0,05 |
| S14K17 | B72214S0170K101 | 17 | 22 | 1000 | 5,0 | 0,10 |
| S20K17 | B72220S0170K101 | 17 | 22 | 2000 | 14,0 | 0,20 |
| S05K20 | B72205S0200K101 | 20 | 26 | 100 | 0,6 | 0,01 |
| S07K20 | B72207S0200K101 | 20 | 26 | 250 | 1,3 | 0,02 |
| S10K20 | B72210S0200K101 | 20 | 26 | 500 | 3,1 | 0,05 |
| S14K20 | B72214S0200K101 | 20 | 26 | 1000 | 6,0 | 0,10 |
| S20K20 | B72220S0200K101 | 20 | 26 | 2000 | 18,0 | 0,20 |
| S05K25 | B72205S0250K101 | 25 | 31 | 100 | 0,7 | 0,01 |
| S07K25 | B72207S0250K101 | 25 | 31 | 250 | 1,6 | 0,02 |
| S10K25 | B72210S0250K101 | 25 | 31 | 500 | 3,7 | 0,05 |
| S14K25 | B72214S0250K101 | 25 | 31 | 1000 | 7,0 | 0,10 |
| S20K25 | B72220S0250K101 | 25 | 31 | 2000 | 22,0 | 0,20 |
| S05K30 | B72205S0300K101 | 30 | 38 | 100 | 0,9 | 0,01 |
| S07K30 | B72207S0300K101 | 30 | 38 | 250 | 2,0 | 0,02 |
| S10K30 | B72210S0300K101 | 30 | 38 | 500 | 4,4 | 0,05 |
| S14K30 | B72214S0300K101 | 30 | 38 | 1000 | 9,0 | 0,10 |
| S20K30 | B72220S0300K101 | 30 | 38 | 2000 | 26,0 | 0,20 |

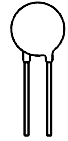
1) Jump-start strength (max. 24 V, 5 minutes)


Leaded Varistors
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Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

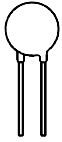
| Type (untaped) SIOV- | V_V (1 mA) V | ΔV_V (1 mA) % | Max. clamping voltage | | C_{typ} (1 kHz) pF | Derating curve Page | V/I char- acteristic Page |
|----------------------------|----------------------|-----------------------------|-----------------------|----------|----------------------------|---------------------------|---------------------------------|
| | | | v V | i A | | | |
| S05K11 | 18 | ± 10 | 36 | 1,0 | 1750 | 246 | 274 |
| S07K11 | 18 | ± 10 | 36 | 2,5 | 2750 | 246 | 275 |
| S10K11 | 18 | ± 10 | 36 | 5,0 | 6250 | 248 | 276 |
| S14K11 | 18 | ± 10 | 36 | 10,0 | 12100 | 249 | 277 |
| S20K11 | 18 | ± 10 | 36 | 20,0 | 23000 | 251 | 278 |
| S05K14 | 22 | ± 10 | 43 | 1,0 | 1450 | 246 | 274 |
| S07K14 | 22 | ± 10 | 43 | 2,5 | 2300 | 246 | 275 |
| S10K14 | 22 | ± 10 | 43 | 5,0 | 5200 | 248 | 276 |
| S14K14 | 22 | ± 10 | 43 | 10,0 | 9950 | 249 | 277 |
| S20K14 | 22 | ± 10 | 43 | 20,0 | 19000 | 251 | 278 |
| S05K17 | 27 | ± 10 | 53 | 1,0 | 1200 | 246 | 274 |
| S07K17 | 27 | ± 10 | 53 | 2,5 | 1900 | 246 | 275 |
| S10K17 | 27 | ± 10 | 53 | 5,0 | 4350 | 248 | 276 |
| S14K17 | 27 | ± 10 | 53 | 10,0 | 8200 | 249 | 277 |
| S20K17 | 27 | ± 10 | 53 | 20,0 | 15600 | 251 | 278 |
| S05K20 | 33 | ± 10 | 65 | 1,0 | 980 | 246 | 274 |
| S07K20 | 33 | ± 10 | 65 | 2,5 | 1600 | 246 | 275 |
| S10K20 | 33 | ± 10 | 65 | 5,0 | 3650 | 248 | 276 |
| S14K20 | 33 | ± 10 | 65 | 10,0 | 6800 | 249 | 277 |
| S20K20 | 33 | ± 10 | 65 | 20,0 | 13000 | 251 | 278 |
| S05K25 | 39 | ± 10 | 77 | 1,0 | 850 | 246 | 274 |
| S07K25 | 39 | ± 10 | 77 | 2,5 | 1400 | 246 | 275 |
| S10K25 | 39 | ± 10 | 77 | 5,0 | 3200 | 248 | 276 |
| S14K25 | 39 | ± 10 | 77 | 10,0 | 5850 | 249 | 277 |
| S20K25 | 39 | ± 10 | 77 | 20,0 | 11100 | 251 | 278 |
| S05K30 | 47 | ± 10 | 93 | 1,0 | 720 | 246 | 274 |
| S07K30 | 47 | ± 10 | 93 | 2,5 | 1200 | 246 | 275 |
| S10K30 | 47 | ± 10 | 93 | 5,0 | 2750 | 248 | 276 |
| S14K30 | 47 | ± 10 | 93 | 10,0 | 4950 | 249 | 277 |
| S20K30 | 47 | ± 10 | 93 | 20,0 | 9350 | 251 | 278 |


Leaded Varistors
Standard Series
Maximum ratings ($T_A = 85\text{ }^\circ\text{C}$)

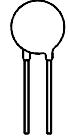
| Type (untyped) SIOV- | Ordering code | V_{RMS} | V_{DC} | i_{max} 8/20 μs | W_{max} (2 ms) | P_{max} |
|----------------------------|-----------------|------------------|-----------------|--|----------------------------|------------------|
| | | V | V | A | J | W |
| S05K35 | B72205S0350K101 | 35 | 45 | 100 | 1,1 | 0,01 |
| S07K35 | B72207S0350K101 | 35 | 45 | 250 | 2,5 | 0,02 |
| S10K35 | B72210S0350K101 | 35 | 45 | 500 | 5,4 | 0,05 |
| S14K35 | B72214S0350K101 | 35 | 45 | 1000 | 10,0 | 0,10 |
| S20K35 | B72220S0350K101 | 35 | 45 | 2000 | 33,0 | 0,20 |
| S05K40 | B72205S0400K101 | 40 | 56 | 100 | 1,3 | 0,01 |
| S07K40 | B72207S0400K101 | 40 | 56 | 250 | 3,0 | 0,02 |
| S10K40 | B72210S0400K101 | 40 | 56 | 500 | 6,4 | 0,05 |
| S14K40 | B72214S0400K101 | 40 | 56 | 1000 | 13,0 | 0,10 |
| S20K40 | B72220S0400K101 | 40 | 56 | 2000 | 37,0 | 0,20 |
| S05K50 | B72205S0500K101 | 50 | 65 | 400 | 1,8 | 0,10 |
| S07K50 | B72207S0500K101 | 50 | 65 | 1200 | 4,2 | 0,25 |
| S10K50 | B72210S0500K101 | 50 | 65 | 2500 | 8,4 | 0,40 |
| S14K50 | B72214S0500K101 | 50 | 65 | 4500 | 15,0 | 0,60 |
| S20K50 | B72220S0500K101 | 50 | 65 | 6500 | 27,0 | 1,00 |
| S05K60 | B72205S0600K101 | 60 | 85 | 400 | 2,2 | 0,10 |
| S07K60 | B72207S0600K101 | 60 | 85 | 1200 | 4,8 | 0,25 |
| S10K60 | B72210S0600K101 | 60 | 85 | 2500 | 10,0 | 0,40 |
| S14K60 | B72214S0600K101 | 60 | 85 | 4500 | 17,0 | 0,60 |
| S20K60 | B72220S0600K101 | 60 | 85 | 6500 | 33,0 | 1,00 |
| S05K75 | B72205S0750K101 | 75 | 100 | 400 | 2,5 | 0,10 |
| S07K75 | B72207S0750K101 | 75 | 100 | 1200 | 5,9 | 0,25 |
| S10K75 | B72210S0750K101 | 75 | 100 | 2500 | 12,0 | 0,40 |
| S14K75 | B72214S0750K101 | 75 | 100 | 4500 | 20,0 | 0,60 |
| S20K75 | B72220S0750K101 | 75 | 100 | 6500 | 40,0 | 1,00 |
| S05K95 | B72205S0950K101 | 95 | 125 | 400 | 3,4 | 0,10 |
| S07K95 | B72207S0950K101 | 95 | 125 | 1200 | 7,6 | 0,25 |
| S10K95 | B72210S0950K101 | 95 | 125 | 2500 | 15,0 | 0,40 |
| S14K95 | B72214S0950K101 | 95 | 125 | 4500 | 25,0 | 0,60 |
| S20K95 | B72220S0950K101 | 95 | 125 | 6500 | 50,0 | 1,00 |


Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

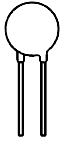
| Type (untyped) SIOV- | V_V (1 mA) V | ΔV_V (1 mA) % | Max. clamping voltage | | C_{typ} (1 kHz) pF | Derating curve Page | V/I char- acteristic Page |
|----------------------------|----------------------|-----------------------------|-----------------------|----------|----------------------------|---------------------------|---------------------------------|
| | | | v V | i A | | | |
| S05K35 | 56 | ± 10 | 110 | 1,0 | 620 | 246 | 274 |
| S07K35 | 56 | ± 10 | 110 | 2,5 | 1050 | 246 | 275 |
| S10K35 | 56 | ± 10 | 110 | 5,0 | 2400 | 248 | 276 |
| S14K35 | 56 | ± 10 | 110 | 10,0 | 4200 | 249 | 277 |
| S20K35 | 56 | ± 10 | 110 | 20,0 | 8000 | 251 | 278 |
| S05K40 | 68 | ± 10 | 135 | 1,0 | 520 | 246 | 274 |
| S07K40 | 68 | ± 10 | 135 | 2,5 | 900 | 246 | 275 |
| S10K40 | 68 | ± 10 | 135 | 5,0 | 2100 | 248 | 276 |
| S14K40 | 68 | ± 10 | 135 | 10,0 | 3550 | 249 | 277 |
| S20K40 | 68 | ± 10 | 135 | 20,0 | 6750 | 251 | 278 |
| S05K50 | 82 | ± 10 | 135 | 5,0 | 300 | 247 | 274 |
| S07K50 | 82 | ± 10 | 135 | 10,0 | 530 | 247 | 275 |
| S10K50 | 82 | ± 10 | 135 | 25,0 | 950 | 248 | 276 |
| S14K50 | 82 | ± 10 | 135 | 50,0 | 1800 | 250 | 277 |
| S20K50 | 82 | ± 10 | 135 | 100,0 | 3800 | 251 | 278 |
| S05K60 | 100 | ± 10 | 165 | 5,0 | 250 | 247 | 274 |
| S07K60 | 100 | ± 10 | 165 | 10,0 | 480 | 247 | 275 |
| S10K60 | 100 | ± 10 | 165 | 25,0 | 870 | 248 | 276 |
| S14K60 | 100 | ± 10 | 165 | 50,0 | 1650 | 250 | 277 |
| S20K60 | 100 | ± 10 | 165 | 100,0 | 3600 | 251 | 278 |
| S05K75 | 120 | ± 10 | 200 | 5,0 | 210 | 247 | 274 |
| S07K75 | 120 | ± 10 | 200 | 10,0 | 430 | 247 | 275 |
| S10K75 | 120 | ± 10 | 200 | 25,0 | 720 | 248 | 276 |
| S14K75 | 120 | ± 10 | 200 | 50,0 | 1370 | 250 | 277 |
| S20K75 | 120 | ± 10 | 200 | 100,0 | 2900 | 251 | 278 |
| S05K95 | 150 | ± 10 | 250 | 5,0 | 135 | 247 | 274 |
| S07K95 | 150 | ± 10 | 250 | 10,0 | 260 | 247 | 275 |
| S10K95 | 150 | ± 10 | 250 | 25,0 | 530 | 248 | 276 |
| S14K95 | 150 | ± 10 | 250 | 50,0 | 870 | 250 | 277 |
| S20K95 | 150 | ± 10 | 250 | 100,0 | 1830 | 251 | 278 |


Leaded Varistors
Standard Series
Maximum ratings ($T_A = 85\text{ °C}$)

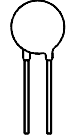
| Type (untaped) SIOV- | Ordering code | V_{RMS} | V_{DC} | i_{max} 8/20 μ s | W_{max} (2 ms) | P_{max} |
|----------------------------|-----------------|-----------|----------|---------------------------|---------------------|-----------|
| | | V | V | A | J | W |
| S05K115 | B72205S0111K101 | 115 | 150 | 400 | 3,6 | 0,10 |
| S07K115 | B72207S0111K101 | 115 | 150 | 1200 | 8,4 | 0,25 |
| S10K115 | B72210S0111K101 | 115 | 150 | 2500 | 18,0 | 0,40 |
| S14K115 | B72214S0111K101 | 115 | 150 | 4500 | 30,0 | 0,60 |
| S20K115 | B72220S0111K101 | 115 | 150 | 6500 | 60,0 | 1,00 |
| S05K130 | B72205S0131K101 | 130 | 170 | 400 | 4,2 | 0,10 |
| S07K130 | B72207S0131K101 | 130 | 170 | 1200 | 9,5 | 0,25 |
| S10K130 | B72210S0131K101 | 130 | 170 | 2500 | 19,0 | 0,40 |
| S14K130 | B72214S0131K101 | 130 | 170 | 4500 | 34,0 | 0,60 |
| S20K130 | B72220S0131K101 | 130 | 170 | 8000 | 74,0 | 1,00 |
| S05K140 | B72205S0141K101 | 140 | 180 | 400 | 4,5 | 0,10 |
| S07K140 | B72207S0141K101 | 140 | 180 | 1200 | 10,0 | 0,25 |
| S10K140 | B72210S0141K101 | 140 | 180 | 2500 | 22,0 | 0,40 |
| S14K140 | B72214S0141K101 | 140 | 180 | 4500 | 36,0 | 0,60 |
| S20K140 | B72220S0141K101 | 140 | 180 | 8000 | 78,0 | 1,00 |
| S05K150 | B72205S0151K101 | 150 | 200 | 400 | 4,9 | 0,10 |
| S07K150 | B72207S0151K101 | 150 | 200 | 1200 | 11,0 | 0,25 |
| S10K150 | B72210S0151K101 | 150 | 200 | 2500 | 24,0 | 0,40 |
| S14K150 | B72214S0151K101 | 150 | 200 | 4500 | 40,0 | 0,60 |
| S20K150 | B72220S0151K101 | 150 | 200 | 8000 | 85,0 | 1,00 |
| S05K175 | B72205S0171K101 | 175 | 225 | 400 | 5,6 | 0,10 |
| S07K175 | B72207S0171K101 | 175 | 225 | 1200 | 13,0 | 0,25 |
| S10K175 | B72210S0171K101 | 175 | 225 | 2500 | 28,0 | 0,40 |
| S14K175 | B72214S0171K101 | 175 | 225 | 4500 | 46,0 | 0,60 |
| S20K175 | B72220S0171K101 | 175 | 225 | 8000 | 98,0 | 1,00 |
| S05K230 | B72205S0231K101 | 230 | 300 | 400 | 7,2 | 0,10 |
| S07K230 | B72207S0231K101 | 230 | 300 | 1200 | 17,0 | 0,25 |
| S10K230 | B72210S0231K101 | 230 | 300 | 2500 | 36,0 | 0,40 |
| S14K230 | B72214S0231K101 | 230 | 300 | 4500 | 60,0 | 0,60 |
| S20K230 | B72220S0231K101 | 230 | 300 | 8000 | 130,0 | 1,00 |
| S05K250 | B72205S0251K101 | 250 | 320 | 400 | 8,2 | 0,10 |
| S07K250 | B72207S0251K101 | 250 | 320 | 1200 | 19,0 | 0,25 |
| S10K250 | B72210S0251K101 | 250 | 320 | 2500 | 38,0 | 0,40 |
| S14K250 | B72214S0251K101 | 250 | 320 | 4500 | 65,0 | 0,60 |
| S20K250 | B72220S0251K101 | 250 | 320 | 8000 | 140,0 | 1,00 |


Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

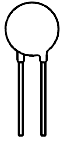
| Type (untaped) SIOV- | V_V (1 mA) V | ΔV_V (1 mA) % | Max. clamping voltage | | C_{typ} (1 kHz) pF | Derating curve Page | V/I char- acteristic Page |
|----------------------------|----------------------|-----------------------------|-----------------------|----------|----------------------------|---------------------------|---------------------------------|
| | | | v V | i A | | | |
| S05K115 | 180 | ± 10 | 300 | 5,0 | 110 | 247 | 274 |
| S07K115 | 180 | ± 10 | 300 | 10,0 | 220 | 247 | 275 |
| S10K115 | 180 | ± 10 | 300 | 25,0 | 445 | 248 | 276 |
| S14K115 | 180 | ± 10 | 300 | 50,0 | 730 | 250 | 277 |
| S20K115 | 180 | ± 10 | 300 | 100,0 | 1520 | 251 | 278 |
| S05K130 | 205 | ± 10 | 340 | 5,0 | 100 | 247 | 274 |
| S07K130 | 205 | ± 10 | 340 | 10,0 | 200 | 247 | 275 |
| S10K130 | 205 | ± 10 | 340 | 25,0 | 400 | 248 | 276 |
| S14K130 | 205 | ± 10 | 340 | 50,0 | 650 | 250 | 277 |
| S20K130 | 205 | ± 10 | 340 | 100,0 | 1340 | 252 | 278 |
| S05K140 | 220 | ± 10 | 360 | 5,0 | 95 | 247 | 274 |
| S07K140 | 220 | ± 10 | 360 | 10,0 | 180 | 247 | 275 |
| S10K140 | 220 | ± 10 | 360 | 25,0 | 370 | 248 | 276 |
| S14K140 | 220 | ± 10 | 360 | 50,0 | 610 | 250 | 277 |
| S20K140 | 220 | ± 10 | 360 | 100,0 | 1240 | 252 | 278 |
| S05K150 | 240 | ± 10 | 395 | 5,0 | 90 | 247 | 274 |
| S07K150 | 240 | ± 10 | 395 | 10,0 | 170 | 247 | 275 |
| S10K150 | 240 | ± 10 | 395 | 25,0 | 350 | 248 | 276 |
| S14K150 | 240 | ± 10 | 395 | 50,0 | 570 | 250 | 277 |
| S20K150 | 240 | ± 10 | 395 | 100,0 | 1160 | 252 | 278 |
| S05K175 | 270 | ± 10 | 455 | 5,0 | 75 | 247 | 274 |
| S07K175 | 270 | ± 10 | 455 | 10,0 | 150 | 247 | 275 |
| S10K175 | 270 | ± 10 | 455 | 25,0 | 300 | 248 | 276 |
| S14K175 | 270 | ± 10 | 455 | 50,0 | 490 | 250 | 277 |
| S20K175 | 270 | ± 10 | 455 | 100,0 | 1000 | 252 | 278 |
| S05K230 | 360 | ± 10 | 595 | 5,0 | 60 | 247 | 274 |
| S07K230 | 360 | ± 10 | 595 | 10,0 | 115 | 247 | 275 |
| S10K230 | 360 | ± 10 | 595 | 25,0 | 230 | 248 | 276 |
| S14K230 | 360 | ± 10 | 595 | 50,0 | 380 | 250 | 277 |
| S20K230 | 360 | ± 10 | 595 | 100,0 | 760 | 252 | 278 |
| S05K250 | 390 | ± 10 | 650 | 5,0 | 55 | 247 | 274 |
| S07K250 | 390 | ± 10 | 650 | 10,0 | 105 | 247 | 275 |
| S10K250 | 390 | ± 10 | 650 | 25,0 | 215 | 248 | 276 |
| S14K250 | 390 | ± 10 | 650 | 50,0 | 350 | 250 | 277 |
| S20K250 | 390 | ± 10 | 650 | 100,0 | 700 | 252 | 278 |


Leaded Varistors
Standard Series
Maximum ratings ($T_A = 85\text{ }^\circ\text{C}$)

| Type (untyped) SIOV- | Ordering code | V_{RMS} V | V_{DC} V | i_{max} 8/20 μs A | W_{max} (2 ms) J | P_{max} W |
|----------------------------|-----------------|----------------|---------------|--------------------------------------|--------------------------|----------------|
| S05K275 | B72205S0271K101 | 275 | 350 | 400 | 8,6 | 0,10 |
| S07K275 | B72207S0271K101 | 275 | 350 | 1200 | 21,0 | 0,25 |
| S10K275 | B72210S0271K101 | 275 | 350 | 2500 | 43,0 | 0,40 |
| S14K275 | B72214S0271K101 | 275 | 350 | 4500 | 71,0 | 0,60 |
| S20K275 | B72220S0271K101 | 275 | 350 | 8000 | 151,0 | 1,00 |
| S05K300 | B72205S0301K101 | 300 | 385 | 400 | 9,6 | 0,10 |
| S07K300 | B72207S0301K101 | 300 | 385 | 1200 | 23,0 | 0,25 |
| S10K300 | B72210S0301K101 | 300 | 385 | 2500 | 47,0 | 0,40 |
| S14K300 | B72214S0301K101 | 300 | 385 | 4500 | 76,0 | 0,60 |
| S20K300 | B72220S0301K101 | 300 | 385 | 8000 | 173,0 | 1,00 |
| S10K320 | B72210S0321K101 | 320 | 420 | 2500 | 50,0 | 0,40 |
| S14K320 | B72214S0321K101 | 320 | 420 | 4500 | 84,0 | 0,60 |
| S20K320 | B72220S0321K101 | 320 | 420 | 8000 | 184,0 | 1,00 |
| S05K385 | B72205S0381K101 | 385 | 505 | 400 | 13,0 | 0,10 |
| S07K385 | B72207S0381K101 | 385 | 505 | 1200 | 28,0 | 0,25 |
| S10K385 | B72210S0381K101 | 385 | 505 | 2500 | 40,0 | 0,40 |
| S14K385 | B72214S0381K101 | 385 | 505 | 4500 | 80,0 | 0,60 |
| S20K385 | B72220S0381K101 | 385 | 505 | 8000 | 150,0 | 1,00 |
| S05K420 | B72205S0421K101 | 420 | 560 | 400 | 14,0 | 0,10 |
| S07K420 | B72207S0421K101 | 420 | 560 | 1200 | 32,0 | 0,25 |
| S10K420 | B72210S0421K101 | 420 | 560 | 2500 | 45,0 | 0,40 |
| S14K420 | B72214S0421K101 | 420 | 560 | 4500 | 90,0 | 0,60 |
| S20K420 | B72220S0421K101 | 420 | 560 | 8000 | 175,0 | 1,00 |
| S05K440 | B72205S0441K101 | 440 | 585 | 400 | 16,0 | 0,10 |
| S07K440 | B72207S0441K101 | 440 | 585 | 1200 | 34,0 | 0,25 |
| S10K440 | B72210S0441K101 | 440 | 585 | 2500 | 47,0 | 0,40 |
| S14K440 | B72214S0441K101 | 440 | 585 | 4500 | 95,0 | 0,60 |
| S20K440 | B72220S0441K101 | 440 | 585 | 8000 | 185,0 | 1,00 |
| S05K460 | B72205S0461K101 | 460 | 615 | 400 | 18,0 | 0,10 |
| S07K460 | B72207S0461K101 | 460 | 615 | 1200 | 36,0 | 0,25 |
| S10K460 | B72210S0461K101 | 460 | 615 | 2500 | 50,0 | 0,40 |
| S14K460 | B72214S0461K101 | 460 | 615 | 4500 | 100,0 | 0,60 |
| S20K460 | B72220S0461K101 | 460 | 615 | 8000 | 195,0 | 1,00 |


Leaded Varistors
Standard Series
Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

| Type (untyped) SIOV- | V_V (1 mA) V | ΔV_V (1 mA) % | Max. clamping voltage | | C_{typ} (1 kHz) pF | Derating curve Page | V/I char- acteristic Page |
|----------------------------|----------------------|-----------------------------|-----------------------|----------|----------------------------|---------------------------|---------------------------------|
| | | | v V | i A | | | |
| S05K275 | 430 | ± 10 | 710 | 5,0 | 50 | 247 | 274 |
| S07K275 | 430 | ± 10 | 710 | 10,0 | 95 | 247 | 275 |
| S10K275 | 430 | ± 10 | 710 | 25,0 | 195 | 248 | 276 |
| S14K275 | 430 | ± 10 | 710 | 50,0 | 320 | 250 | 277 |
| S20K275 | 430 | ± 10 | 710 | 100,0 | 630 | 252 | 278 |
| S05K300 | 470 | ± 10 | 775 | 5,0 | 45 | 247 | 274 |
| S07K300 | 470 | ± 10 | 775 | 10,0 | 90 | 247 | 275 |
| S10K300 | 470 | ± 10 | 775 | 25,0 | 180 | 248 | 276 |
| S14K300 | 470 | ± 10 | 775 | 50,0 | 300 | 250 | 277 |
| S20K300 | 470 | ± 10 | 775 | 100,0 | 580 | 252 | 278 |
| S10K320 | 510 | ± 10 | 840 | 25,0 | 170 | 248 | 276 |
| S14K320 | 510 | ± 10 | 840 | 50,0 | 280 | 250 | 277 |
| S20K320 | 510 | ± 10 | 840 | 100,0 | 540 | 252 | 278 |
| S05K385 | 620 | ± 10 | 1025 | 5,0 | 40 | 247 | 274 |
| S07K385 | 620 | ± 10 | 1025 | 10,0 | 75 | 247 | 275 |
| S10K385 | 620 | ± 10 | 1025 | 25,0 | 150 | 249 | 276 |
| S14K385 | 620 | ± 10 | 1025 | 50,0 | 240 | 250 | 277 |
| S20K385 | 620 | ± 10 | 1025 | 100,0 | 450 | 252 | 278 |
| S05K420 | 680 | ± 10 | 1120 | 5,0 | 35 | 247 | 274 |
| S07K420 | 680 | ± 10 | 1120 | 10,0 | 65 | 247 | 275 |
| S10K420 | 680 | ± 10 | 1120 | 25,0 | 135 | 249 | 276 |
| S14K420 | 680 | ± 10 | 1120 | 50,0 | 220 | 250 | 277 |
| S20K420 | 680 | ± 10 | 1120 | 100,0 | 420 | 252 | 278 |
| S05K440 | 715 | ± 10 | 1180 | 5,0 | 32 | 247 | 274 |
| S07K440 | 715 | ± 10 | 1180 | 10,0 | 60 | 247 | 275 |
| S10K440 | 715 | ± 10 | 1180 | 25,0 | 125 | 249 | 276 |
| S14K440 | 715 | ± 10 | 1180 | 50,0 | 210 | 250 | 277 |
| S20K440 | 715 | ± 10 | 1180 | 100,0 | 400 | 252 | 278 |
| S05K460 | 750 | ± 10 | 1240 | 5,0 | 30 | 247 | 274 |
| S07K460 | 750 | ± 10 | 1240 | 10,0 | 55 | 247 | 275 |
| S10K460 | 750 | ± 10 | 1240 | 25,0 | 120 | 249 | 276 |
| S14K460 | 750 | ± 10 | 1240 | 50,0 | 200 | 250 | 277 |
| S20K460 | 750 | ± 10 | 1240 | 100,0 | 380 | 252 | 278 |



Leaded Varistors

Standard Series

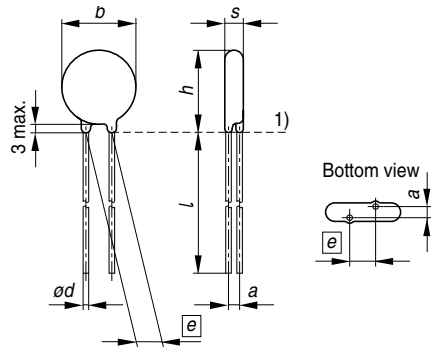
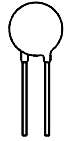
Maximum ratings ($T_A = 85\text{ }^\circ\text{C}$)

| Type (untaped) SIOV- | Ordering code | V_{RMS} | V_{DC} | i_{max} 8/20 μs | W_{max} (2 ms) | P_{max} |
|----------------------------|-----------------|-----------|----------|---------------------------------|---------------------|-----------|
| | | V | V | A | J | W |
| S10K510 | B72210S0511K101 | 510 | 670 | 2500 | 55,0 | 0,40 |
| S14K510 | B72214S0511K101 | 510 | 670 | 4500 | 110,0 | 0,60 |
| S20K510 | B72220S0511K101 | 510 | 670 | 6500 | 190,0 | 1,00 |
| S10K550 | B72210S0551K101 | 550 | 745 | 2500 | 60,0 | 0,40 |
| S14K550 | B72214S0551K101 | 550 | 745 | 4500 | 120,0 | 0,60 |
| S20K550 | B72220S0551K101 | 550 | 745 | 6500 | 210,0 | 1,00 |
| S10K625 | B72210S0621K101 | 625 | 825 | 2500 | 68,0 | 0,40 |
| S14K625 | B72214S0621K101 | 625 | 825 | 4500 | 130,0 | 0,60 |
| S20K625 | B72220S0621K101 | 625 | 825 | 6500 | 230,0 | 1,00 |
| S10K680 | B72210S0681K101 | 680 | 895 | 2500 | 72,0 | 0,40 |
| S14K680 | B72214S0681K101 | 680 | 895 | 4500 | 140,0 | 0,60 |
| S20K680 | B72220S0681K101 | 680 | 895 | 6500 | 250,0 | 1,00 |
| S14K1000 ¹⁾ | B72214S0102K101 | 1100 | 1465 | 4500 | 230,0 | 0,60 |
| S20K1000 ¹⁾ | B72220S0102K101 | 1100 | 1465 | 6500 | 410,0 | 1,00 |

Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

| Type (untaped) SIOV- | V_V (1 mA) V | ΔV_V (1 mA) % | Max. clamping voltage | | C_{typ} (1 kHz) pF | Derating curve Page | V/I char- acteristic Page |
|----------------------------|----------------------|-----------------------------|-----------------------|----------|----------------------------|---------------------------|---------------------------------|
| | | | v V | i A | | | |
| S10K510 | 820 | ± 10 | 1355 | 25,0 | 110 | 249 | 276 |
| S14K510 | 820 | ± 10 | 1355 | 50,0 | 180 | 250 | 277 |
| S20K510 | 820 | ± 10 | 1355 | 100,0 | 340 | 253 | 278 |
| S10K550 | 910 | ± 10 | 1500 | 25,0 | 105 | 249 | 276 |
| S14K550 | 910 | ± 10 | 1500 | 50,0 | 170 | 250 | 277 |
| S20K550 | 910 | ± 10 | 1500 | 100,0 | 320 | 253 | 278 |
| S10K625 | 1000 | ± 10 | 1650 | 25,0 | 90 | 249 | 276 |
| S14K625 | 1000 | ± 10 | 1650 | 50,0 | 150 | 250 | 277 |
| S20K625 | 1000 | ± 10 | 1650 | 100,0 | 280 | 253 | 278 |
| S10K680 | 1100 | ± 10 | 1815 | 25,0 | 85 | 249 | 276 |
| S14K680 | 1100 | ± 10 | 1815 | 50,0 | 140 | 250 | 277 |
| S20K680 | 1100 | ± 10 | 1815 | 100,0 | 250 | 253 | 278 |
| S14K1000 ¹⁾ | 1800 | ± 10 | 2970 | 50,0 | 100 | 250 | 277 |
| S20K1000 ¹⁾ | 1800 | ± 10 | 2970 | 100,0 | 170 | 253 | 278 |

1) Operating voltage differs from type designation.



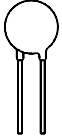
1) Seating plane according to IEC 60717

VAR0408-C

Dimensions

| Type | $e \pm 1$ mm | $a \pm 1$ mm | b_{\max} mm | s_{\max} mm | h_{\max} mm | l_{\min} mm | $d \pm 0,05$ mm |
|-------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|
| SIOV-S05K11 | 5,0 | 1,2 | 7,0 | 3,3 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K11 | 5,0 | 1,2 | 9,0 | 3,4 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K11 | 7,5 (5) | 1,4 (1,2) | 12,0 | 4,0 (3,6) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K11 | 7,5 | 1,4 | 15,5 | 4,0 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K11 | 10,0 | 1,5 | 21,5 | 4,5 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K14 | 5,0 | 1,3 | 7,0 | 3,4 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K14 | 5,0 | 1,3 | 9,0 | 3,5 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K14 | 7,5 (5) | 1,5 (1,3) | 12,0 | 4,2 (3,8) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K14 | 7,5 | 1,5 | 15,5 | 4,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K14 | 10,0 | 1,6 | 21,5 | 4,6 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K17 | 5,0 | 1,4 | 7,0 | 3,5 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K17 | 5,0 | 1,4 | 9,0 | 3,6 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K17 | 7,5 (5) | 1,6 (1,4) | 12,0 | 4,4 (4,0) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K17 | 7,5 | 1,7 | 15,5 | 4,4 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K17 | 10,0 | 1,8 | 21,5 | 4,8 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K20 | 5,0 | 1,2 | 7,0 | 3,5 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K20 | 5,0 | 1,2 | 9,0 | 3,6 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K20 | 7,5 (5) | 1,8 (1,6) | 12,0 | 4,5 (4,1) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K20 | 7,5 | 1,9 | 15,5 | 4,6 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K20 | 10,0 | 2,1 | 21,5 | 5,1 | 25,5 | 30,0 | 1,0 |

Dimensions in () apply to the taped version with 5 mm lead spacing. For (*) see chapter "Taping", page 206 ff.



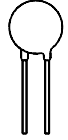
Leaded Varistors

Standard Series

Dimensions

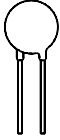
| Type | $e \pm 1$ mm | $a \pm 1$ mm | b_{\max} mm | s_{\max} mm | h_{\max} mm | l_{\min} mm | $d \pm 0,05$ mm |
|-------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|
| SIOV-S05K25 | 5,0 | 1,3 | 7,0 | 3,6 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K25 | 5,0 | 1,3 | 9,0 | 3,7 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K25 | 7,5 (5) | 1,6 (1,4) | 12,0 | 4,2 (3,8) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K25 | 7,5 | 1,7 | 15,5 | 4,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K25 | 10,0 | 1,8 | 21,5 | 4,7 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K30 | 5,0 | 1,5 | 7,0 | 3,6 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K30 | 5,0 | 1,5 | 9,0 | 3,7 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K30 | 7,5 (5) | 1,7 (1,5) | 12,0 | 4,4 (4,0) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K30 | 7,5 | 1,8 | 15,5 | 4,4 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K30 | 10,0 | 2,0 | 21,5 | 4,9 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K35 | 5,0 | 1,6 | 7,0 | 3,7 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K35 | 5,0 | 1,6 | 9,0 | 3,9 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K35 | 7,5 (5) | 1,8 (1,6) | 12,0 | 4,4 (4,0) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K35 | 7,5 | 2,0 | 15,5 | 4,5 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K35 | 10,0 | 2,2 | 21,5 | 5,1 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K40 | 5,0 | 1,8 | 7,0 | 3,9 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K40 | 5,0 | 1,8 | 9,0 | 4,1 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K40 | 7,5 (5) | 2,1 (1,9) | 12,0 | 4,8 (4,4) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K40 | 7,5 | 2,2 | 15,5 | 4,9 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K40 | 10,0 | 2,4 | 21,5 | 5,4 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K50 | 5,0 | 1,2 | 7,0 | 3,3 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K50 | 5,0 | 1,2 | 9,0 | 3,3 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K50 | 7,5 (5) | 1,4 (1,2) | 12,0 | 3,9 (3,5) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K50 | 7,5 | 1,4 | 15,5 | 3,9 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K50 | 10,0 | 1,5 | 21,5 | 4,3 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K60 | 5,0 | 1,2 | 7,0 | 3,3 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K60 | 5,0 | 1,2 | 9,0 | 3,3 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K60 | 7,5 (5) | 1,4 (1,2) | 12,0 | 4,0 (3,6) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K60 | 7,5 | 1,5 | 15,5 | 4,0 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K60 | 10,0 | 1,6 | 21,5 | 4,4 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K75 | 5,0 | 1,3 | 7,0 | 3,4 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K75 | 5,0 | 1,3 | 9,0 | 3,6 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K75 | 7,5 (5) | 1,5 (1,3) | 12,0 | 4,2 (3,8) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K75 | 7,5 | 1,5 | 15,5 | 4,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K75 | 10,0 | 1,6 | 21,5 | 4,6 | 25,5 | 30,0 | 1,0 |

Dimensions in () apply to the taped version with 5 mm lead spacing. For (*) see chapter "Taping", page 206 ff.


Leaded Varistors
Standard Series
Dimensions

| Type | $e \pm 1$ mm | $a \pm 1$ mm | b_{\max} mm | s_{\max} mm | h_{\max} mm | l_{\min} mm | $d \pm 0,05$ mm |
|--------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|
| SIOV-S05K95 | 5,0 | 1,3 | 7,0 | 3,4 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K95 | 5,0 | 1,3 | 9,0 | 3,4 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K95 | 7,5 (5) | 1,5 (1,3) | 12,0 | 4,0 (3,6) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K95 | 7,5 | 1,5 | 15,5 | 4,0 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K95 | 10,0 | 1,6 | 21,5 | 4,5 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K115 | 5,0 | 1,5 | 7,0 | 3,6 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K115 | 5,0 | 1,5 | 9,0 | 3,6 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K115 | 7,5 (5) | 1,6 (1,4) | 12,0 | 4,2 (3,8) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K115 | 7,5 | 1,7 | 15,5 | 4,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K115 | 10,0 | 1,8 | 21,5 | 4,6 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K130 | 5,0 | 1,6 | 7,0 | 3,6 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K130 | 5,0 | 1,6 | 9,0 | 3,6 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K130 | 7,5 (5) | 1,8 (1,6) | 12,0 | 4,2 (3,8) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K130 | 7,5 | 1,9 | 15,5 | 4,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K130 | 10,0 | 2,0 | 21,5 | 4,7 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K140 | 5,0 | 1,7 | 7,0 | 3,7 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K140 | 5,0 | 1,7 | 9,0 | 3,7 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K140 | 7,5 (5) | 1,9 (1,7) | 12,0 | 4,3 (3,9) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K140 | 7,5 | 2,0 | 15,5 | 4,3 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K140 | 10,0 | 2,1 | 21,5 | 4,8 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K150 | 5,0 | 1,8 | 7,0 | 3,8 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K150 | 5,0 | 1,8 | 9,0 | 3,8 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K150 | 7,5 (5) | 2,0 (1,8) | 12,0 | 4,4 (4,0) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K150 | 7,5 | 2,1 | 15,5 | 4,4 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K150 | 10,0 | 2,2 | 21,5 | 4,9 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K175 | 5,0 | 2,0 | 7,0 | 3,9 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K175 | 5,0 | 2,0 | 9,0 | 4,0 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K175 | 7,5 (5) | 2,2 (2,0) | 12,0 | 4,6 (4,2) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K175 | 7,5 | 2,2 | 15,5 | 4,6 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K175 | 10,0 | 2,3 | 21,5 | 5,0 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K230 | 5,0 | 1,8 | 7,0 | 4,0 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K230 | 5,0 | 1,8 | 9,0 | 4,0 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K230 | 7,5 (5) | 2,0 (2,3) | 12,0 | 4,7 (4,3) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K230 | 7,5 | 2,0 | 15,5 | 4,7 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K230 | 10,0 | 2,1 | 21,5 | 5,1 | 25,5 | 30,0 | 1,0 |

Dimensions in () apply to the taped version with 5 mm lead spacing. For (*) see chapter "Taping", page 206 ff.



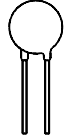
Leaded Varistors

Standard Series

Dimensions

| Type | $e \pm 1$ mm | $a \pm 1$ mm | b_{\max} mm | s_{\max} mm | h_{\max} mm | l_{\min} mm | $d \pm 0,05$ mm |
|--------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|
| SIOV-S05K250 | 5,0 | 1,8 | 7,0 | 4,2 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K250 | 5,0 | 1,8 | 9,0 | 4,2 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K250 | 7,5 (5) | 2,0 (1,8) | 12,0 | 4,8 (4,4) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K250 | 7,5 | 2,0 | 15,5 | 4,8 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K250 | 10,0 | 2,2 | 21,5 | 5,3 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K275 | 5,0 | 2,0 | 7,0 | 4,3 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K275 | 5,0 | 2,0 | 9,0 | 4,4 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K275 | 7,5 (5) | 2,2 (2,0) | 12,0 | 5,0 (4,6) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K275 | 7,5 | 2,2 | 15,5 | 5,0 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K275 | 10,0 | 2,3 | 21,5 | 5,4 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K300 | 5,0 | 2,1 | 7,0 | 4,5 | 8,5 | 30,0 | 0,6 |
| SIOV-S07K300 | 5,0 | 2,1 | 9,0 | 4,5 | 11,0 | 30,0 | 0,6 |
| SIOV-S10K300 | 7,5 (5) | 2,3 (2,1) | 12,0 | 5,1 (4,7) | 14,5 | 30,0 (*) | 0,8 (0,6) |
| SIOV-S14K300 | 7,5 | 2,3 | 15,5 | 5,2 | 18,5 | 30,0 | 0,8 |
| SIOV-S20K300 | 10,0 | 2,4 | 21,5 | 5,6 | 25,5 | 30,0 | 1,0 |
| SIOV-S10K320 | 7,5 | 2,4 | 12,0 | 5,4 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K320 | 7,5 | 2,4 | 15,5 | 5,4 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K320 | 10,0 | 2,6 | 21,5 | 5,8 | 25,5 | 30,0 | 1,0 |
| SIOV-S05K385 | 5,0 | 2,5 | 7,0 | 5,1 | 9,0 | 30,0 | 0,6 |
| SIOV-S07K385 | 5,0 | 2,5 | 9,0 | 5,2 | 11,5 | 30,0 | 0,6 |
| SIOV-S10K385 | 7,5 | 2,7 | 12,0 | 5,8 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K385 | 7,5 | 2,7 | 15,5 | 5,9 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K385 | 10,0 | 2,8 | 21,5 | 6,3 | 26,0 | 30,0 | 1,0 |
| SIOV-S05K420 | 5,0 | 2,8 | 7,0 | 5,4 | 9,0 | 30,0 | 0,6 |
| SIOV-S07K420 | 5,0 | 2,8 | 9,0 | 5,4 | 11,5 | 30,0 | 0,6 |
| SIOV-S10K420 | 7,5 | 2,9 | 12,0 | 6,1 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K420 | 7,5 | 2,9 | 15,5 | 6,1 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K420 | 10,0 | 3,1 | 21,5 | 6,5 | 26,0 | 30,0 | 1,0 |
| SIOV-S05K440 | 5,0 | 2,8 | 7,0 | 5,5 | 9,0 | 30,0 | 0,6 |
| SIOV-S07K440 | 5,0 | 2,8 | 9,0 | 5,5 | 11,5 | 30,0 | 0,6 |
| SIOV-S10K440 | 7,5 | 3,0 | 12,0 | 6,2 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K440 | 7,5 | 3,0 | 15,5 | 6,3 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K440 | 10,0 | 3,1 | 21,5 | 6,7 | 26,0 | 30,0 | 1,0 |

Dimensions in () apply to the taped version with 5 mm lead spacing. For (*) see chapter "Taping", page 206 ff.


Leaded Varistors
Standard Series
Dimensions

| Type | $e \pm 1$ mm | $a \pm 1$ mm | b_{\max} mm | s_{\max} mm | h_{\max} mm | l_{\min} mm | $d \pm 0,05$ mm |
|---------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--------------------|
| SIOV-S05K460 | 5,0 | 3,0 | 7,0 | 5,7 | 9,0 | 30,0 | 0,6 |
| SIOV-S07K460 | 5,0 | 3,0 | 9,0 | 5,7 | 11,5 | 30,0 | 0,6 |
| SIOV-S10K460 | 7,5 | 3,1 | 12,0 | 6,3 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K460 | 7,5 | 3,1 | 15,5 | 6,4 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K460 | 10,0 | 3,3 | 21,5 | 6,8 | 26,0 | 30,0 | 1,0 |
| SIOV-S10K510 | 7,5 | 3,4 | 12,0 | 6,7 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K510 | 7,5 | 3,4 | 15,5 | 6,8 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K510 | 10,0 | 3,5 | 21,5 | 7,1 | 26,0 | 30,0 | 1,0 |
| SIOV-S10K550 | 7,5 | 3,7 | 12,0 | 7,1 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K550 | 7,5 | 3,7 | 15,5 | 7,2 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K550 | 10,0 | 3,9 | 21,5 | 7,5 | 26,0 | 30,0 | 1,0 |
| SIOV-S10K625 | 7,5 | 4,0 | 12,0 | 7,5 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K625 | 7,5 | 4,0 | 15,5 | 7,5 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K625 | 10,0 | 4,2 | 21,5 | 7,9 | 26,0 | 30,0 | 1,0 |
| SIOV-S10K680 | 7,5 | 4,4 | 12,0 | 7,9 | 15,0 | 30,0 | 0,8 |
| SIOV-S14K680 | 7,5 | 4,4 | 15,5 | 8,0 | 19,0 | 30,0 | 0,8 |
| SIOV-S20K680 | 10,0 | 4,5 | 21,5 | 8,4 | 26,0 | 30,0 | 1,0 |
| SIOV-S14K1000 | 7,5 | 6,7 | 15,5 | 11,0 | 20,5 | 30,0 | 0,8 |
| SIOV-S20K1000 | 10,0 | 6,9 | 21,5 | 11,4 | 28,5 | 30,0 | 1,0 |

Weight

| Size | approx. | |
|-----------------|----------------|---|
| S05K11 ... 460 | 0,3 ... 0,7 g | The weight of varistors in between these voltage classes can be interpolated. |
| S07K11 ... 460 | 0,4 ... 1,1 g | |
| S10K11 ... 680 | 1,0 ... 3,0 g | |
| S14K11 ... 1000 | 1,4 ... 7,6 g | |
| S20K11 ... 1000 | 2,7 ... 15,7 g | |

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Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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