

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

| Type | Ordering code | Operating voltage | | Surge current | Energy absorption | Power dissipation |
|-----------------|-------------------|-------------------|-----------------|--|----------------------------|-------------------|
| | | V_{RMS} | V_{DC} | i_{max} 8/20 μs | W_{max} (2 ms) | P_{max} |
| | | V | V | A | J | W |
| SIOV-CN1206K20G | Q69520-V0200-K062 | 20 | 26 | 100 | 0,5 | 0,008 |
| SIOV-CN1210K20G | Q69530-V0200-K062 | 20 | 26 | 250 | 1,2 | 0,01 |
| SIOV-CN1812K20G | Q69580-V0200-K062 | 20 | 26 | 500 | 2,5 | 0,015 |
| SIOV-CN2220K20G | Q69540-V0200-K062 | 20 | 26 | 1000 | 4,3 | 0,02 |
| SIOV-CN1206K25G | Q69520-V0250-K062 | 25 | 31 | 100 | 0,6 | 0,008 |
| SIOV-CN1210K25G | Q69530-V0250-K062 | 25 | 31 | 250 | 1,4 | 0,01 |
| SIOV-CN1812K25G | Q69580-V0250-K062 | 25 | 31 | 500 | 2,9 | 0,015 |
| SIOV-CN2220K25G | Q69540-V0250-K062 | 25 | 31 | 1000 | 5,5 | 0,02 |
| SIOV-CN1206K30G | Q69520-V0300-K062 | 30 | 38 | 100 | 0,7 | 0,008 |
| SIOV-CN1210K30G | Q69530-V0300-K062 | 30 | 38 | 250 | 1,6 | 0,01 |
| SIOV-CN1812K30G | Q69580-V0300-K062 | 30 | 38 | 500 | 3,5 | 0,015 |
| SIOV-CN2220K30G | Q69540-V0300-K062 | 30 | 38 | 1000 | 6,3 | 0,02 |
| SIOV-CN1206K35G | Q69520-V0350-K062 | 35 | 45 | 100 | 0,8 | 0,008 |
| SIOV-CN1210K35G | Q69530-V0350-K062 | 35 | 45 | 250 | 2,0 | 0,01 |
| SIOV-CN1812K35G | Q69580-V0350-K062 | 35 | 45 | 500 | 4,2 | 0,015 |
| SIOV-CN2220K35G | Q69540-V0350-K062 | 35 | 45 | 1000 | 7,7 | 0,02 |
| SIOV-CN1206K40G | Q69520-V0400-K062 | 40 | 56 | 100 | 1,0 | 0,008 |
| SIOV-CN1210K40G | Q69530-V0400-K062 | 40 | 56 | 250 | 2,3 | 0,01 |
| SIOV-CN1812K40G | Q69580-V0400-K062 | 40 | 56 | 500 | 4,8 | 0,015 |
| SIOV-CN2220K40G | Q69540-V0400-K062 | 40 | 56 | 1000 | 8,8 | 0,02 |
| SIOV-CN1206K50G | Q69520-V0500-K062 | 50 | 65 | 80 | 0,5 | 0,008 |
| SIOV-CN1210K50G | Q69530-V0500-K062 | 50 | 65 | 200 | 1,2 | 0,01 |
| SIOV-CN1812K50G | Q69580-V0500-K062 | 50 | 65 | 400 | 1,7 | 0,015 |
| SIOV-CN2220K50G | Q69540-V0500-K062 | 50 | 65 | 800 | 5,6 | 0,02 |
| SIOV-CN1206K60G | Q69520-V0600-K062 | 60 | 85 | 80 | 0,6 | 0,008 |
| SIOV-CN1210K60G | Q69530-V0600-K062 | 60 | 85 | 200 | 1,4 | 0,01 |
| SIOV-CN1812K60G | Q69580-V0600-K062 | 60 | 85 | 400 | 2,2 | 0,015 |
| SIOV-CN2220K60G | Q69540-V0600-K062 | 60 | 85 | 800 | 6,8 | 0,02 |



20 ... 60 V_{RMS}
26 ... 85 V_{DC}

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

| Varistor voltage V_V (1 mA) V | Tolerance ΔV_V (1 mA) % | Max. clamping voltage | | Capacitance typ. C (1 kHz) pF | Derating curves Page | V/I characteristic Page |
|--|--|-----------------------|-----|---|--------------------------------|-----------------------------------|
| | | v | i | | | |
| 33 | K = ± 10 | 54 | 1 | 600 | 10 | 15 |
| 33 | K = ± 10 | 54 | 2,5 | 1500 | 11 | 16 |
| 33 | K = ± 10 | 54 | 5 | 3000 | 12 | 17 |
| 33 | K = ± 10 | 54 | 10 | 7000 | 13 | 18 |
| 39 | K = ± 10 | 65 | 1 | 550 | 10 | 15 |
| 39 | K = ± 10 | 65 | 2,5 | 1200 | 11 | 16 |
| 39 | K = ± 10 | 65 | 5 | 2500 | 12 | 17 |
| 39 | K = ± 10 | 65 | 10 | 5000 | 13 | 18 |
| 47 | K = ± 10 | 77 | 1 | 500 | 10 | 15 |
| 47 | K = ± 10 | 77 | 2,5 | 1000 | 11 | 16 |
| 47 | K = ± 10 | 77 | 5 | 2000 | 12 | 17 |
| 47 | K = ± 10 | 77 | 10 | 4000 | 13 | 18 |
| 56 | K = ± 10 | 90 | 1 | 300 | 10 | 15 |
| 56 | K = ± 10 | 90 | 2,5 | 600 | 11 | 16 |
| 56 | K = ± 10 | 90 | 5 | 1200 | 12 | 17 |
| 56 | K = ± 10 | 90 | 10 | 2500 | 13 | 18 |
| 68 | K = ± 10 | 110 | 1 | 250 | 10 | 15 |
| 68 | K = ± 10 | 110 | 2,5 | 500 | 11 | 16 |
| 68 | K = ± 10 | 110 | 5 | 1000 | 12 | 17 |
| 68 | K = ± 10 | 110 | 10 | 2000 | 13 | 18 |
| 82 | K = ± 10 | 135 | 1 | 120 | 10 | 15 |
| 82 | K = ± 10 | 135 | 2,5 | 250 | 11 | 16 |
| 82 | K = ± 10 | 135 | 5 | 500 | 12 | 17 |
| 82 | K = ± 10 | 135 | 10 | 1000 | 13 | 18 |
| 100 | K = ± 10 | 165 | 1 | 120 | 10 | 15 |
| 100 | K = ± 10 | 165 | 2,5 | 200 | 11 | 16 |
| 100 | K = ± 10 | 165 | 5 | 400 | 12 | 17 |
| 100 | K = ± 10 | 165 | 10 | 800 | 13 | 18 |