

SIOV Metal Oxide Varistors

Leaded Varistors (AdvanceD Series)

AdvanceD series, dimensions

Construction

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

New Features

- New high-energy AdvanceD series E2
- High surge current ratings up to 10 kA
- High energy ratings up to 720 J
- Wide operating voltage range 11 ... 1100 V_{RMS}
- PSpice models

Approvals

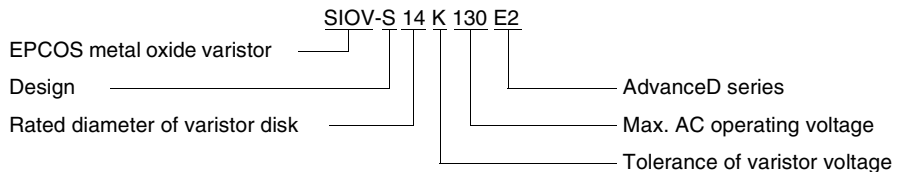
- UL
- CSA (all types $\geq$ K115)
- VDE
- CECC

Taping

- For ordering information [see page 206 ff](#)

Type designation

Detailed description of coding system [on page 39](#)



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	$\geq 2,5 \text{ kV}_{\text{RMS}}$	in accordance with CECC 42 000
Insulation resistance	$\geq 1,0 \text{ G}\Omega$	in accordance with CECC 42 000
Response time	< 25 ns	

**SIOV Metal Oxide Varistors****Advanced Series****Maximum ratings** ($T_A = 85\text{ }^{\circ}\text{C}$)

Type (untaped) SIOV-	Ordering code NEW	V_{RMS} V	V_{DC} V	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
S05K11E2	B72205-S2110-K101	11	14	250	0,4	0,01
S07K11E2	B72207-S2110-K101	11	14	500	0,9	0,02
S10K11E2	B72210-S2110-K101	11	14	1000	2,2	0,05
S14K11E2	B72214-S2110-K101	11	14	2000	4,3	0,10
S20K11E2	B72220-S2110-K101	11	14	3000	12,0	0,20
S05K14E2	B72205-S2140-K101	14	18	250	0,5	0,01
S07K14E2	B72207-S2140-K101	14	18	500	1,1	0,02
S10K14E2	B72210-S2140-K101	14	18	1000	2,6	0,05
S14K14E2	B72214-S2140-K101	14	18	2000	5,3	0,10
S20K14E2	B72220-S2140-K101	14	18	3000	14,0	0,20
S05K17E2	B72205-S2170-K101	17	22	250	0,7	0,01
S07K17E2	B72207-S2170-K101	17	22	500	1,3	0,02
S10K17E2	B72210-S2170-K101	17	22	1000	3,2	0,05
S14K17E2	B72214-S2170-K101	17	22	2000	6,5	0,10
S20K17E2	B72220-S2170-K101	17	22	3000	17,0	0,20
S05K20E2	B72205-S2200-K101	20	26	250	0,8	0,01
S07K20E2	B72207-S2200-K101	20	26	500	1,6	0,02
S10K20E2	B72210-S2200-K101	20	26	1000	4,0	0,05
S14K20E2	B72214-S2200-K101	20	26	2000	7,9	0,10
S20K20E2	B72220-S2200-K101	20	26	3000	21,0	0,32
S05K25E2	B72205-S2250-K101	25	31	250	0,9	0,01
S07K25E2	B72207-S2250-K101	25	31	500	1,9	0,02
S10K25E2	B72210-S2250-K101	25	31	1000	4,7	0,05
S14K25E2	B72214-S2250-K101	25	31	2000	9,4	0,10
S20K25E2	B72220-S2250-K101	25	31	3000	25,0	0,20
S05K30E2	B72205-S2300-K101	30	38	250	1,1	0,01
S07K30E2	B72207-S2300-K101	30	38	500	2,3	0,02
S10K30E2	B72210-S2300-K101	30	38	1000	5,6	0,05
S14K30E2	B72214-S2300-K101	30	38	2000	11,0	0,10
S20K30E2	B72220-S2300-K101	30	38	3000	30,0	0,20
S05K35E2	B72205-S2350-K101	35	45	250	1,3	0,01
S07K35E2	B72207-S2350-K101	35	45	500	2,7	0,02
S10K35E2	B72210-S2350-K101	35	45	1000	6,7	0,05
S14K35E2	B72214-S2350-K101	35	45	2000	13,0	0,10
S20K35E2	B72220-S2350-K101	35	45	3000	36,0	0,20

Note: New ordering codes implemented (refer to chapter Varistor Type Cross-Reference List)



SIOV Metal Oxide Varistors

AdvanceD Series

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			
S05K11E2	18	± 10	36	1,0	1750	253	278
S07K11E2	18	± 10	36	2,5	2750	254	279
S10K11E2	18	± 10	36	5,0	6250	255	280
S14K11E2	18	± 10	36	10,0	12100	257	281
S20K11E2	18	± 10	36	20,0	23000	259	282
S05K14E2	22	± 10	43	1,0	1450	253	278
S07K14E2	22	± 10	43	2,5	2300	254	279
S10K14E2	22	± 10	43	5,0	5200	255	280
S14K14E2	22	± 10	43	10,0	9950	257	281
S20K14E2	22	± 10	43	20,0	19000	259	282
S05K17E2	27	± 10	53	1,0	1200	253	278
S07K17E2	27	± 10	53	2,5	1900	254	279
S10K17E2	27	± 10	53	5,0	4350	255	280
S14K17E2	27	± 10	53	10,0	8200	257	281
S20K17E2	27	± 10	53	20,0	15600	259	282
S05K20E2	33	± 10	65	1,0	980	253	278
S07K20E2	33	± 10	65	2,5	1600	254	279
S10K20E2	33	± 10	65	5,0	3650	255	280
S14K20E2	33	± 10	65	10,0	6800	257	281
S20K20E2	33	± 10	65	20,0	13000	259	282
S05K25E2	39	± 10	77	1,0	850	253	278
S07K25E2	39	± 10	77	2,5	1400	254	279
S10K25E2	39	± 10	77	5,0	3200	255	280
S14K25E2	39	± 10	77	10,0	5850	257	281
S20K25E2	39	± 10	77	20,0	11100	259	282
S05K30E2	47	± 10	93	1,0	720	253	278
S07K30E2	47	± 10	93	2,5	1200	254	279
S10K30E2	47	± 10	93	5,0	2750	255	280
S14K30E2	47	± 10	93	10,0	4950	257	281
S20K30E2	47	± 10	93	20,0	9350	259	282
S05K35E2	56	± 10	110	1,0	620	253	278
S07K35E2	56	± 10	110	2,5	1050	254	279
S10K35E2	56	± 10	110	5,0	2400	255	280
S14K35E2	56	± 10	110	10,0	4200	257	281
S20K35E2	56	± 10	110	20,0	8000	259	282



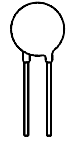
SIOV Metal Oxide Varistors

Advanced Series

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

Type (untyped) SIOV-	Ordering code NEW	V_{RMS} V	V_{DC} V	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
S05K40E2	B72205-S2400-K101	40	56	250	1,6	0,01
S07K40E2	B72207-S2400-K101	40	56	500	3,3	0,02
S10K40E2	B72210-S2400-K101	40	56	1000	8,2	0,05
S14K40E2	B72214-S2400-K101	40	56	2000	16,0	0,10
S20K40E2	B72220-S2400-K101	40	56	3000	44,0	0,20
S05K50E2	B72205-S2500-K101	50	65	800	2,5	0,10
S07K50E2	B72207-S2500-K101	50	65	1750	5,0	0,25
S10K50E2	B72210-S2500-K101	50	65	3500	10,0	0,40
S14K50E2	B72214-S2500-K101	50	65	6000	20,0	0,60
S20K50E2	B72220-S2500-K101	50	65	10000	40,0	1,00
S05K60E2	B72205-S2600-K101	60	85	800	3,0	0,10
S07K60E2	B72207-S2600-K101	60	85	1750	6,0	0,25
S10K60E2	B72210-S2600-K101	60	85	3500	12,0	0,40
S14K60E2	B72214-S2600-K101	60	85	6000	25,0	0,60
S20K60E2	B72220-S2600-K101	60	85	10000	50,0	1,00
S05K75E2	B72205-S2750-K101	75	100	800	3,5	0,10
S07K75E2	B72207-S2750-K101	75	100	1750	7,0	0,25
S10K75E2	B72210-S2750-K101	75	100	3500	14,5	0,40
S14K75E2	B72214-S2750-K101	75	100	6000	30,0	0,60
S20K75E2	B72220-S2750-K101	75	100	10000	60,0	1,00
S05K95E2	B72205-S2950-K101	95	125	800	4,5	0,10
S07K95E2	B72207-S2950-K101	95	125	1750	9,0	0,25
S10K95E2	B72210-S2950-K101	95	125	3500	18,0	0,40
S14K95E2	B72214-S2950-K101	95	125	6000	37,5	0,60
S20K95E2	B72220-S2950-K101	95	125	10000	75,0	1,00
S05K130E2	B72205-S2131-K101	130	170	800	4,2	0,10
S07K130E2	B72207-S2131-K101	130	170	1750	9,5	0,25
S10K130E2	B72210-S2131-K101	130	170	3500	19,0	0,40
S14K130E2	B72214-S2131-K101	130	170	6000	34,0	0,60
S20K130E2	B72220-S2131-K101	130	170	10000	74,0	1,00
S05K140E2	B72205-S2141-K101	140	180	800	4,5	0,10
S07K140E2	B72207-S2141-K101	140	180	1750	10,0	0,25
S10K140E2	B72210-S2141-K101	140	180	3500	22,0	0,40
S14K140E2	B72214-S2141-K101	140	180	6000	36,0	0,60
S20K140E2	B72220-S2141-K101	140	180	10000	78,0	1,00

Note: New ordering codes implemented (refer to chapter Varistor Type Cross-Reference List)

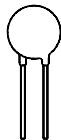


SIOV Metal Oxide Varistors

AdvanceD Series

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			
S05K40E2	68	± 10	135	1,0	520	253	278
S07K40E2	68	± 10	135	2,5	900	254	279
S10K40E2	68	± 10	135	5,0	2100	255	280
S14K40E2	68	± 10	135	10,0	3550	257	281
S20K40E2	68	± 10	135	20,0	6750	259	282
S05K50E2	82	± 10	135	5,0	300	254	278
S07K50E2	82	± 10	135	10,0	530	255	279
S10K50E2	82	± 10	135	25,0	950	256	280
S14K50E2	82	± 10	135	50,0	1800	257	281
S20K50E2	82	± 10	135	100,0	3800	259	282
S05K60E2	100	± 10	165	5,0	250	254	278
S07K60E2	100	± 10	165	10,0	480	255	279
S10K60E2	100	± 10	165	25,0	870	256	280
S14K60E2	100	± 10	165	50,0	1650	257	281
S20K60E2	100	± 10	165	100,0	3600	259	282
S05K75E2	120	± 10	200	5,0	210	254	278
S07K75E2	120	± 10	200	10,0	430	255	279
S10K75E2	120	± 10	200	25,0	720	256	280
S14K75E2	120	± 10	200	50,0	1370	257	281
S20K75E2	120	± 10	200	100,0	2900	259	282
S05K95E2	150	± 10	250	5,0	135	254	278
S07K95E2	150	± 10	250	10,0	260	255	279
S10K95E2	150	± 10	250	25,0	530	256	280
S14K95E2	150	± 10	250	50,0	870	257	281
S20K95E2	150	± 10	250	100,0	1830	259	282
S05K130E2	200	± 10	340	5,0	100	254	278
S07K130E2	200	± 10	340	10,0	200	255	279
S10K130E2	200	± 10	340	25,0	400	256	280
S14K130E2	200	± 10	340	50,0	650	257	281
S20K130E2	200	± 10	340	100,0	1340	259	282
S05K140E2	220	± 10	360	5,0	95	254	278
S07K140E2	220	± 10	360	10,0	180	255	279
S10K140E2	220	± 10	360	25,0	370	256	280
S14K140E2	220	± 10	360	50,0	610	257	281
S20K140E2	220	± 10	360	100,0	1240	259	282

**SIOV Metal Oxide Varistors****Advanced Series****Maximum ratings** ($T_A = 85\text{ °C}$)

Type (untaped) SIOV-	Ordering code NEW	V_{RMS} V	V_{DC} V	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
S05K150E2	B72205-S2151-K101	150	200	800	7,5	0,10
S07K150E2	B72207-S2151-K101	150	200	1750	15,0	0,25
S10K150E2	B72210-S2151-K101	150	200	3500	30,0	0,40
S14K150E2	B72214-S2151-K101	150	200	6000	60,0	0,60
S20K150E2	B72220-S2151-K101	150	200	10000	120,0	1,00
S05K175E2	B72205-S2171-K101	175	225	800	8,0	0,10
S07K175E2	B72207-S2171-K101	175	225	1750	17,0	0,25
S10K175E2	B72210-S2171-K101	175	225	3500	35,0	0,40
S14K175E2	B72214-S2171-K101	175	225	6000	70,0	0,60
S20K175E2	B72220-S2171-K101	175	225	10000	135,0	1,00
S05K210E2	B72205-S2211-K101	210	270	800	9,5	0,10
S07K210E2	B72207-S2211-K101	210	270	1750	20,0	0,25
S10K210E2	B72210-S2211-K101	210	270	3500	42,0	0,40
S14K210E2	B72214-S2211-K101	210	270	6000	80,0	0,60
S20K210E2	B72220-S2211-K101	210	270	10000	160,0	1,00
S05K230E2	B72205-S2230-K101	230	300	800	11,0	0,10
S07K230E2	B72207-S2230-K101	230	300	1750	23,0	0,25
S10K230E2	B72210-S2230-K101	230	300	3500	45,0	0,40
S14K230E2	B72214-S2230-K101	230	300	6000	90,0	0,60
S20K230E2	B72220-S2230-K101	230	300	10000	180,0	1,00
S05K250E2	B72205-S2251-K101	250	320	800	12,0	0,10
S07K250E2	B72207-S2251-K101	250	320	1750	25,0	0,25
S10K250E2	B72210-S2251-K101	250	320	3500	50,0	0,40
S14K250E2	B72214-S2251-K101	250	320	6000	100,0	0,60
S20K250E2	B72220-S2251-K101	250	320	10000	195,0	1,00
S05K275E2	B72205-S2271-K101	275	350	800	13,5	0,10
S07K275E2	B72207-S2271-K101	275	350	1750	27,5	0,25
S10K275E2	B72210-S2271-K101	275	350	3500	55,0	0,40
S14K275E2	B72214-S2271-K101	275	350	6000	110,0	0,60
S20K275E2	B72220-S2271-K101	275	350	10000	215,0	1,00
S05K300E2	B72205-S2301-K101	300	385	800	15,0	0,10
S07K300E2	B72207-S2301-K101	300	385	1750	30,0	0,25
S10K300E2	B72210-S2301-K101	300	385	3500	60,0	0,40
S14K300E2	B72214-S2301-K101	300	385	6000	125,0	0,60
S20K300E2	B72220-S2301-K101	300	385	10000	250,0	1,00

Note: New ordering codes implemented (refer to chapter Varistor Type Cross-Reference List)



SIOV Metal Oxide Varistors

AdvanceD Series

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			
S05K150E2	240	± 10	395	5,0	90	254	278
S07K150E2	240	± 10	395	10,0	170	255	279
S10K150E2	240	± 10	395	25,0	350	256	280
S14K150E2	240	± 10	395	50,0	570	257	281
S20K150E2	240	± 10	395	100,0	1160	259	282
S05K175E2	270	± 10	455	5,0	75	254	278
S07K175E2	270	± 10	455	10,0	150	255	279
S10K175E2	270	± 10	455	25,0	300	256	280
S14K175E2	270	± 10	455	50,0	490	257	281
S20K175E2	270	± 10	455	100,0	1000	259	282
S05K210E2	330	± 10	545	5,0	65	254	278
S07K210E2	330	± 10	545	10,0	125	255	279
S10K210E2	330	± 10	545	25,0	250	256	280
S14K210E2	330	± 10	545	50,0	410	257	281
S20K210E2	330	± 10	545	100,0	835	259	282
S05K230E2	360	± 10	595	5,0	60	254	278
S07K230E2	360	± 10	595	10,0	115	255	279
S10K230E2	360	± 10	595	25,0	230	256	280
S14K230E2	360	± 10	595	50,0	380	257	281
S20K230E2	360	± 10	595	100,0	760	259	282
S05K250E2	390	± 10	650	5,0	55	254	278
S07K250E2	390	± 10	650	10,0	105	255	279
S10K250E2	390	± 10	650	25,0	215	256	280
S14K250E2	390	± 10	650	50,0	350	257	281
S20K250E2	390	± 10	650	100,0	700	259	282
S05K275E2	430	± 10	710	5,0	50	254	278
S07K275E2	430	± 10	710	10,0	95	255	279
S10K275E2	430	± 10	710	25,0	195	256	280
S14K275E2	430	± 10	710	50,0	320	257	281
S20K275E2	430	± 10	710	100,0	630	259	282
S05K300E2	470	± 10	775	5,0	45	254	278
S07K300E2	470	± 10	775	10,0	90	255	279
S10K300E2	470	± 10	775	25,0	180	256	280
S14K300E2	470	± 10	775	50,0	300	257	281
S20K300E2	470	± 10	775	100,0	580	259	282

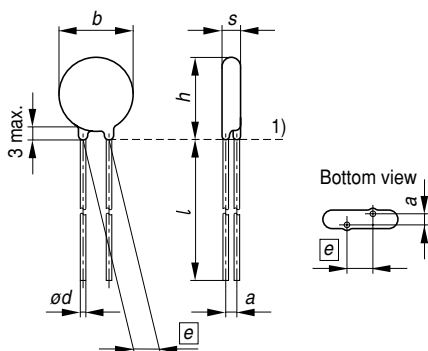
**SIOV Metal Oxide Varistors****Advanced Series****Maximum ratings** ($T_A = 85\text{ }^{\circ}\text{C}$)

Type (untaped) SIOV-	Ordering code NEW	V_{RMS} V	V_{DC} V	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
S07K320E2	B72207-S2321-K101	320	420	1750	32,0	0,25
S10K320E2	B72210-S2321-K101	320	420	3500	67,0	0,40
S14K320E2	B72214-S2321-K101	320	420	6000	136,0	0,60
S20K320E2	B72220-S2321-K101	320	420	10000	273,0	1,00
S10K385E2	B72210-S2381-K101	385	505	3500	67,0	0,40
S14K385E2	B72214-S2381-K101	385	505	5000	136,0	0,60
S20K385E2	B72220-S2381-K101	385	505	10000	273,0	1,00
S10K420E2	B72210-S2421-K101	420	560	3500	67,0	0,40
S14K420E2	B72214-S2421-K101	420	560	5000	136,0	0,60
S20K420E2	B72220-S2421-K101	420	560	10000	273,0	1,00
S10K460E2	B72210-S2461-K101	460	615	3500	70,0	0,40
S14K460E2	B72214-S2461-K101	460	615	5000	150,0	0,60
S20K460E2	B72220-S2461-K101	460	615	10000	300,0	1,00
S10K510E2	B72210-S2511-K101	510	670	3500	80,0	0,40
S14K510E2	B72214-S2511-K101	510	670	5000	165,0	0,60
S20K510E2	B72220-S2511-K101	510	670	10000	325,0	1,00
S10K550E2	B72210-S2551-K101	550	745	3500	90,0	0,40
S14K550E2	B72214-S2551-K101	550	745	5000	180,0	0,60
S20K550E2	B72220-S2551-K101	550	745	10000	360,0	1,00
S10K625E2	B72210-S2621-K101	625	825	3500	100,0	0,40
S14K625E2	B72214-S2621-K101	625	825	5000	200,0	0,60
S20K625E2	B72220-S2621-K101	625	825	10000	400,0	1,00
S10K680E2	B72210-S2681-K101	680	895	3500	110,0	0,40
S14K680E2	B72214-S2681-K101	680	895	5000	220,0	0,60
S20K680E2	B72220-S2681-K101	680	895	10000	440,0	1,00
S14K1000E2	B72214-S2102-K101	1000	1465	5000	360,0	0,60
S20K1000E2	B72220-S2102-K101	1000	1465	10000	720,0	1,00

Note: New ordering codes implemented ([refer to chapter Varistor Type Cross-Reference List](#))


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

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			
S07K320E2	510	± 10	845	10,0	85	255	279
S10K320E2	510	± 10	845	25,0	170	256	280
S14K320E2	510	± 10	845	50,0	280	257	281
S20K320E2	510	± 10	845	100,0	540	259	282
S10K385E2	620	± 10	1025	25,0	150	256	280
S14K385E2	620	± 10	1025	50,0	240	258	281
S20K385E2	620	± 10	1025	100,0	450	260	282
S10K420E2	680	± 10	1120	25,0	135	256	280
S14K420E2	680	± 10	1120	50,0	220	258	281
S20K420E2	680	± 10	1120	100,0	420	260	282
S10K460E2	750	± 10	1240	25,0	120	256	280
S14K460E2	750	± 10	1240	50,0	200	258	281
S20K460E2	750	± 10	1240	100,0	380	260	282
S10K510E2	820	± 10	1355	25,0	110	256	280
S14K510E2	820	± 10	1355	50,0	180	258	281
S20K510E2	820	± 10	1355	100,0	340	260	282
S10K550E2	910	± 10	1500	25,0	105	256	280
S14K550E2	910	± 10	1500	50,0	170	258	281
S20K550E2	910	± 10	1500	100,0	320	260	282
S10K625E2	1000	± 10	1650	25,0	90	256	280
S14K625E2	1000	± 10	1650	50,0	150	258	281
S20K625E2	1000	± 10	1650	100,0	280	260	282
S10K680E2	1100	± 10	1815	25,0	85	256	280
S14K680E2	1100	± 10	1815	50,0	140	258	281
S20K680E2	1100	± 10	1815	100,0	250	260	282
S14K1000E2	1800	± 10	2970	50,0	100	258	281
S20K1000E2	1800	± 10	2970	100,0	170	260	282

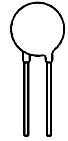


1) Seating plane according to IEC 60717

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-S05K11E2	5,0	1,2	7,0	3,5	8,5	30,0	0,6
SIOV-S07K11E2	5,0	1,2	9,0	3,5	11,0	30,0	0,6
SIOV-S10K11E2	7,5	1,4	12,0	4,1	14,5	30,0	0,8
SIOV-S14K11E2	7,5	1,4	15,5	4,1	18,5	30,0	0,8
SIOV-S20K11E2	10,0	1,5	21,5	4,5	25,5	30,0	1,0
SIOV-S05K14E2	5,0	1,3	7,0	3,6	8,5	30,0	0,6
SIOV-S07K14E2	5,0	1,3	9,0	3,6	11,0	30,0	0,6
SIOV-S10K14E2	7,5	1,5	12,0	4,2	14,5	30,0	0,8
SIOV-S14K14E2	7,5	1,5	15,5	4,2	18,5	30,0	0,8
SIOV-S20K14E2	10,0	1,6	21,5	4,6	25,5	30,0	1,0
SIOV-S05K17E2	5,0	1,4	7,0	3,7	8,5	30,0	0,6
SIOV-S07K17E2	5,0	1,4	9,0	3,7	11,0	30,0	0,6
SIOV-S10K17E2	7,5	1,6	12,0	4,4	14,5	30,0	0,8
SIOV-S14K17E2	7,5	1,7	15,5	4,4	18,5	30,0	0,8
SIOV-S20K17E2	10,0	1,8	21,5	4,8	25,5	30,0	1,0
SIOV-S05K20E2	5,0	1,2	7,0	3,9	8,5	30,0	0,6
SIOV-S07K20E2	5,0	1,2	9,0	3,9	11,0	30,0	0,6
SIOV-S10K20E2	7,5	1,8	12,0	4,5	14,5	30,0	0,8
SIOV-S14K20E2	7,5	1,9	15,5	4,6	18,5	30,0	0,8
SIOV-S20K20E2	10,0	2,1	21,5	5,1	25,5	30,0	1,0



SIOV Metal Oxide Varistors

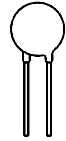
Advanced Series

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-S05K25E2	5,0	1,3	7,0	3,6	8,5	30,0	0,6
SIOV-S07K25E2	5,0	1,3	9,0	3,7	11,0	30,0	0,6
SIOV-S10K25E2	7,5	1,6	12,0	4,3	14,5	30,0	0,8
SIOV-S14K25E2	7,5	1,7	15,5	4,4	18,5	30,0	0,8
SIOV-S20K25E2	10,0	1,8	21,5	4,8	25,5	30,0	1,0
SIOV-S05K30E2	5,0	1,5	7,0	3,8	8,5	30,0	0,6
SIOV-S07K30E2	5,0	1,5	9,0	3,8	11,0	30,0	0,6
SIOV-S10K30E2	7,5	1,7	12,0	4,4	14,5	30,0	0,8
SIOV-S14K30E2	7,5	1,8	15,5	4,5	18,5	30,0	0,8
SIOV-S20K30E2	10,0	2,0	21,5	5,0	25,5	30,0	1,0
SIOV-S05K35E2	5,0	1,6	7,0	3,9	8,5	30,0	0,6
SIOV-S07K35E2	5,0	1,6	9,0	3,9	11,0	30,0	0,6
SIOV-S10K35E2	7,5	1,8	12,0	4,5	14,5	30,0	0,8
SIOV-S14K35E2	7,5	2,0	15,5	4,7	18,5	30,0	0,8
SIOV-S20K35E2	10,0	2,2	21,5	5,2	25,5	30,0	1,0
SIOV-S05K40E2	5,0	1,8	7,0	4,1	8,5	30,0	0,6
SIOV-S07K40E2	5,0	1,8	9,0	4,1	11,0	30,0	0,6
SIOV-S10K40E2	7,5	2,1	12,0	4,8	14,5	30,0	0,8
SIOV-S14K40E2	7,5	2,2	15,5	4,9	18,5	30,0	0,8
SIOV-S20K40E2	10,0	2,4	21,5	5,4	25,5	30,0	1,0
SIOV-S05K50E2	5,0	1,2	7,0	3,5	8,5	30,0	0,6
SIOV-S07K50E2	5,0	1,2	9,0	3,5	11,0	30,0	0,6
SIOV-S10K50E2	7,5	1,4	12,0	4,1	14,5	30,0	0,8
SIOV-S14K50E2	7,5	1,4	15,5	4,1	18,5	30,0	0,8
SIOV-S20K50E2	10,0	1,5	21,5	4,5	25,5	30,0	1,0
SIOV-S05K60E2	5,0	1,2	7,0	3,5	8,5	30,0	0,6
SIOV-S07K60E2	5,0	1,2	9,0	3,5	11,0	30,0	0,6
SIOV-S10K60E2	7,5	1,4	12,0	4,1	14,5	30,0	0,8
SIOV-S14K60E2	7,5	1,5	15,5	4,2	18,5	30,0	0,8
SIOV-S20K60E2	10,0	1,6	21,5	4,6	25,5	30,0	1,0
SIOV-S05K75E2	5,0	1,3	7,0	3,6	8,5	30,0	0,6
SIOV-S07K75E2	5,0	1,3	9,0	3,6	11,0	30,0	0,6
SIOV-S10K75E2	7,5	1,5	12,0	4,2	14,5	30,0	0,8
SIOV-S14K75E2	7,5	1,5	15,5	4,2	18,5	30,0	0,8
SIOV-S20K75E2	10,0	1,6	21,5	4,6	25,5	30,0	1,0


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-S05K95E2	5,0	1,3	7,0	3,6	8,5	30,0	0,6
SIOV-S07K95E2	5,0	1,3	9,0	3,6	11,0	30,0	0,6
SIOV-S10K95E2	7,5	1,5	12,0	4,2	14,5	30,0	0,8
SIOV-S14K95E2	7,5	1,5	15,5	4,2	18,5	30,0	0,8
SIOV-S20K95E2	10,0	1,6	21,5	4,6	25,5	30,0	1,0
SIOV-S05K130E2	5,0	1,6	7,0	3,9	8,5	30,0	0,6
SIOV-S07K130E2	5,0	1,6	9,0	3,9	11,0	30,0	0,6
SIOV-S10K130E2	7,5	1,8	12,0	4,5	14,5	30,0	0,8
SIOV-S14K130E2	7,5	1,9	15,5	4,6	18,5	30,0	0,8
SIOV-S20K130E2	10,0	2,0	21,5	5,0	25,5	30,0	1,0
SIOV-S05K140E2	5,0	1,7	7,0	4,0	8,5	30,0	0,6
SIOV-S07K140E2	5,0	1,7	9,0	4,0	11,0	30,0	0,6
SIOV-S10K140E2	7,5	1,9	12,0	4,6	14,5	30,0	0,8
SIOV-S14K140E2	7,5	2,0	15,5	4,7	18,5	30,0	0,8
SIOV-S20K140E2	10,0	2,1	21,5	5,1	25,5	30,0	1,0
SIOV-S05K150E2	5,0	1,8	7,0	4,1	8,5	30,0	0,6
SIOV-S07K150E2	5,0	1,8	9,0	4,1	11,0	30,0	0,6
SIOV-S10K150E2	7,5	2,0	12,0	4,7	14,5	30,0	0,8
SIOV-S14K150E2	7,5	2,1	15,5	4,8	18,5	30,0	0,8
SIOV-S20K150E2	10,0	2,2	21,5	5,2	25,5	30,0	1,0
SIOV-S05K175E2	5,0	2,0	7,0	4,3	8,5	30,0	0,6
SIOV-S07K175E2	5,0	2,0	9,0	4,3	11,0	30,0	0,6
SIOV-S10K175E2	7,5	2,2	12,0	4,9	14,5	30,0	0,8
SIOV-S14K175E2	7,5	2,2	15,5	4,9	18,5	30,0	0,8
SIOV-S20K175E2	10,0	2,3	21,5	5,3	25,5	30,0	1,0
SIOV-S05K210E2	5,0	1,7	7,0	4,2	8,5	30,0	0,6
SIOV-S07K210E2	5,0	1,7	9,0	4,2	11,0	30,0	0,6
SIOV-S10K210E2	7,5	1,9	12,0	5,0	14,5	30,0	0,8
SIOV-S14K210E2	7,5	1,9	15,5	5,0	18,5	30,0	0,8
SIOV-S20K210E2	10,0	2,2	21,5	5,4	25,5	30,0	1,0
SIOV-S05K230E2	5,0	1,8	7,0	4,4	8,5	30,0	0,6
SIOV-S07K230E2	5,0	1,8	9,0	4,4	11,0	30,0	0,6
SIOV-S10K230E2	7,5	2,0	12,0	5,0	14,5	30,0	0,8
SIOV-S14K230E2	7,5	2,0	15,5	5,1	18,5	30,0	0,8
SIOV-S20K230E2	10,0	2,3	21,5	5,5	25,5	30,0	1,0



SIOV Metal Oxide Varistors

Advanced 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-S05K250E2	5,0	1,9	7,0	4,5	8,5	30,0	0,6
SIOV-S07K250E2	5,0	1,9	9,0	4,5	11,0	30,0	0,6
SIOV-S10K250E2	7,5	2,1	12,0	5,2	14,5	30,0	0,8
SIOV-S14K250E2	7,5	2,1	15,5	5,2	18,5	30,0	0,8
SIOV-S20K250E2	10,0	2,4	21,5	5,7	25,5	30,0	1,0
SIOV-S05K275E2	5,0	2,0	7,0	4,6	8,5	30,0	0,6
SIOV-S07K275E2	5,0	2,0	9,0	4,6	11,0	30,0	0,6
SIOV-S10K275E2	7,5	2,2	12,0	5,4	14,5	30,0	0,8
SIOV-S14K275E2	7,5	2,2	15,5	5,4	18,5	30,0	0,8
SIOV-S20K275E2	10,0	2,6	21,5	5,8	25,5	30,0	1,0
SIOV-S05K300E2	5,0	2,1	7,0	4,7	8,5	30,0	0,6
SIOV-S07K300E2	5,0	2,1	9,0	4,7	11,0	30,0	0,6
SIOV-S10K300E2	7,5	2,3	12,0	5,6	14,5	30,0	0,8
SIOV-S14K300E2	7,5	2,3	15,5	5,6	18,5	30,0	0,8
SIOV-S20K300E2	10,0	2,8	21,5	6,1	25,5	30,0	1,0
SIOV-S07K320E2	5,0	2,3	9,0	4,6	11,0	30,0	0,6
SIOV-S10K320E2	7,5	2,4	12,0	5,8	15,0	30,0	0,8
SIOV-S14K320E2	7,5	2,4	15,5	5,8	19,0	30,0	0,8
SIOV-S20K320E2	10,0	2,9	21,5	6,2	25,5	30,0	1,0
SIOV-S10K385E2	7,5	3,3	12,0	7,1	15,0	30,0	0,8
SIOV-S14K385E2	7,5	3,4	15,5	7,1	19,0	30,0	0,8
SIOV-S20K385E2	10,0	3,9	21,5	7,6	26,0	30,0	1,0
SIOV-S10K420E2	7,5	3,5	12,0	7,4	15,0	30,0	0,8
SIOV-S14K420E2	7,5	3,6	15,5	7,5	19,0	30,0	0,8
SIOV-S20K420E2	10,0	4,2	21,5	7,9	26,0	30,0	1,0
SIOV-S10K460E2	7,5	3,7	12,0	7,7	15,0	30,0	0,8
SIOV-S14K460E2	7,5	3,8	15,5	7,8	19,0	30,0	0,8
SIOV-S20K460E2	10,0	4,5	21,5	8,2	26,0	30,0	1,0
SIOV-S10K510E2	7,5	4,0	12,0	8,0	15,0	30,0	0,8
SIOV-S14K510E2	7,5	4,0	15,5	8,1	19,0	30,0	0,8
SIOV-S20K510E2	10,0	4,6	21,5	8,6	26,0	30,0	1,0
SIOV-S10K550E2	7,5	4,3	12,0	8,4	15,0	30,0	0,8
SIOV-S14K550E2	7,5	4,3	15,5	8,5	19,0	30,0	0,8
SIOV-S20K550E2	10,0	4,8	21,5	9,0	26,0	30,0	1,0


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-S10K625E2	7,5	4,0	12,0	8,8	15,0	30,0	0,8
SIOV-S14K625E2	7,5	4,0	15,5	8,9	19,0	30,0	0,8
SIOV-S20K625E2	10,0	4,2	21,5	9,4	26,0	30,0	1,0
SIOV-S10K680E2	7,5	4,4	12,0	9,3	15,0	30,0	0,8
SIOV-S14K680E2	7,5	4,4	15,5	9,4	19,0	30,0	0,8
SIOV-S20K680E2	10,0	4,5	21,5	9,9	26,0	30,0	1,0
SIOV-S14K1000E2	7,5	7,2	15,5	12,8	20,5	30,0	0,8
SIOV-S20K1000E2	10,0	7,4	21,5	13,4	28,5	30,0	1,0

Weight

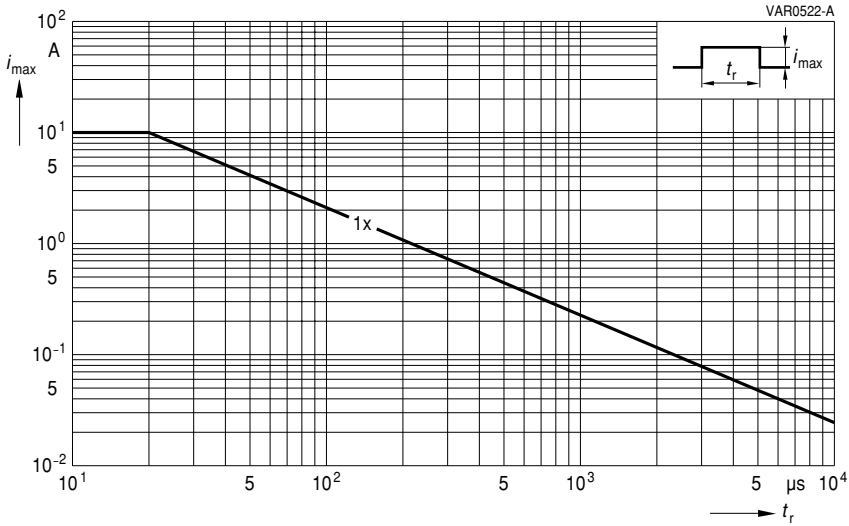
Size	approx.	
S05K11 ... 300E2	0,3 ... 0,5 g	The weight of varistors in between these voltage classes can be interpolated.
S07K11 ... 320E2	0,4 ... 0,8 g	
S10K11 ... 680E2	1,0 ... 3,0 g	
S14K11 ... 1000E2	1,4 ... 7,6 g	
S20K11 ... 1000E2	2,7 ... 15,7 g	

SIOV Metal Oxide Varistors

Derating Curves

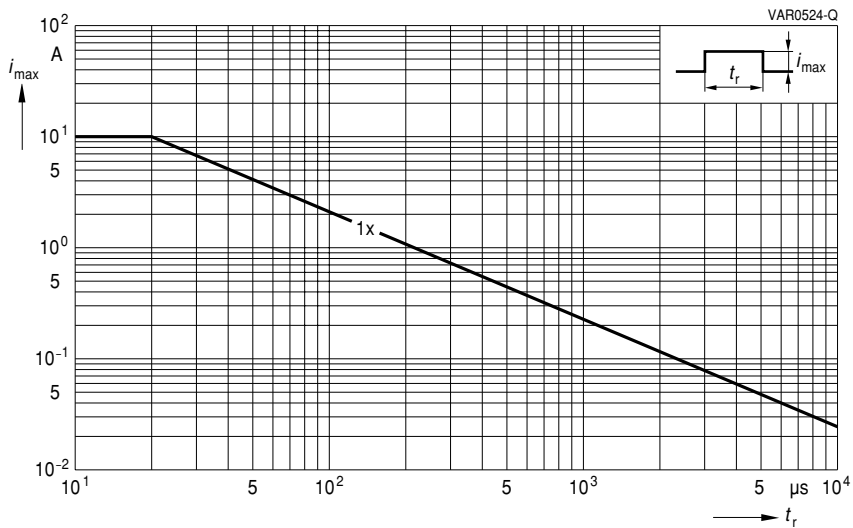
Maximum surge current

$i_{\max} = f(t_r)$, pulse train – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN0402L14G(K2)

SIOV-CT/CN0603K17LCG



SIOV-CA05P4S17ALCGK2

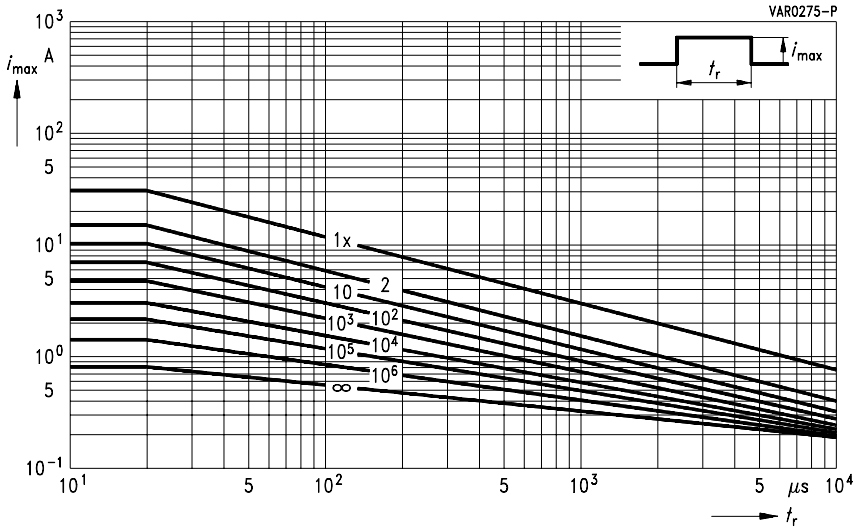
SIOV-CA04P2S17ALCGK2

SIOV Metal Oxide Varistors

Derating Curves

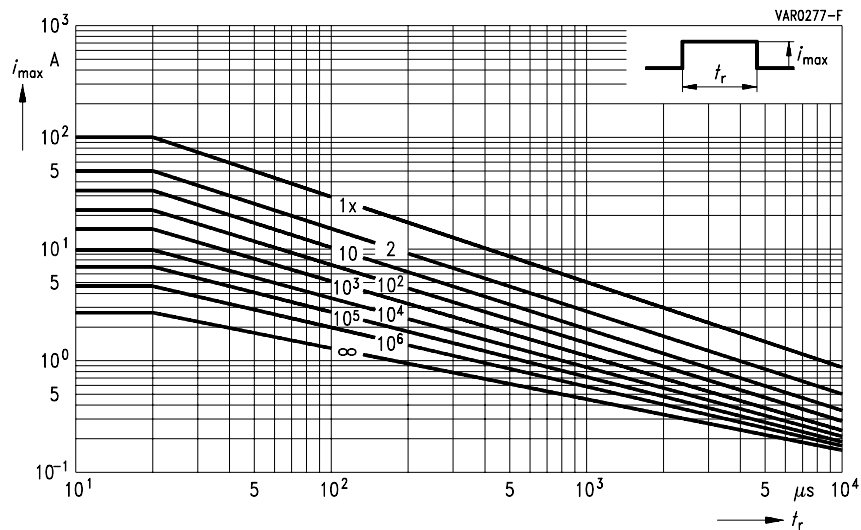
Maximum surge current

$i_{\max} = f(t_r)$, pulse train – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN0603M4G ... K25G
SIOV-CT/CN0603S14BAUTOG

SIOV-CT/CN0805K17LCG
SIOV-CA06P4M7GK2 ... S17ALCGK2



SIOV-CT/CN0805M4G

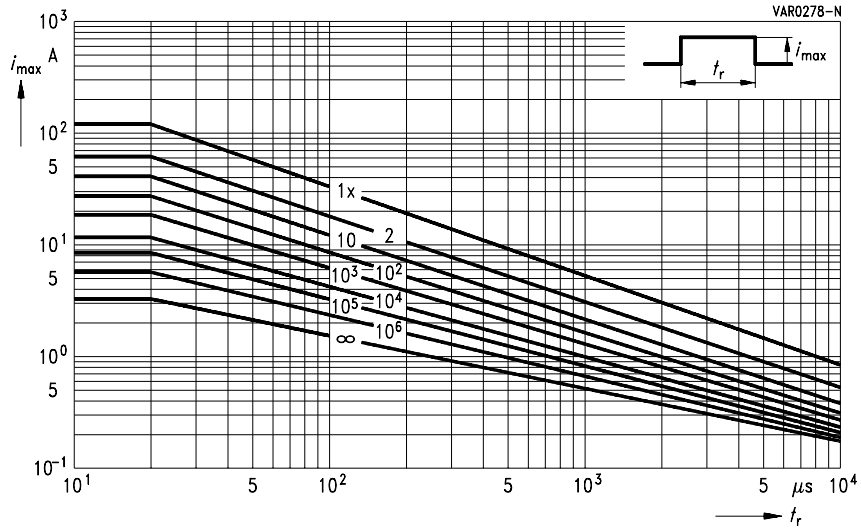
SIOV-CT/CN1206K35G ... K60G

SIOV Metal Oxide Varistors

Derating Curves

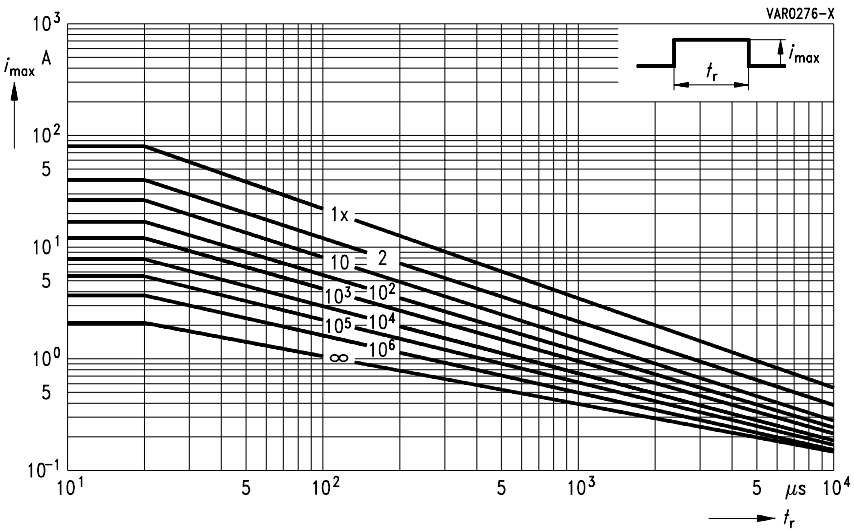
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN0805M6G ... K17G
SIOV-CT/CN0805S14BAUTOG

SIOV-CT/CN0805M6CCG



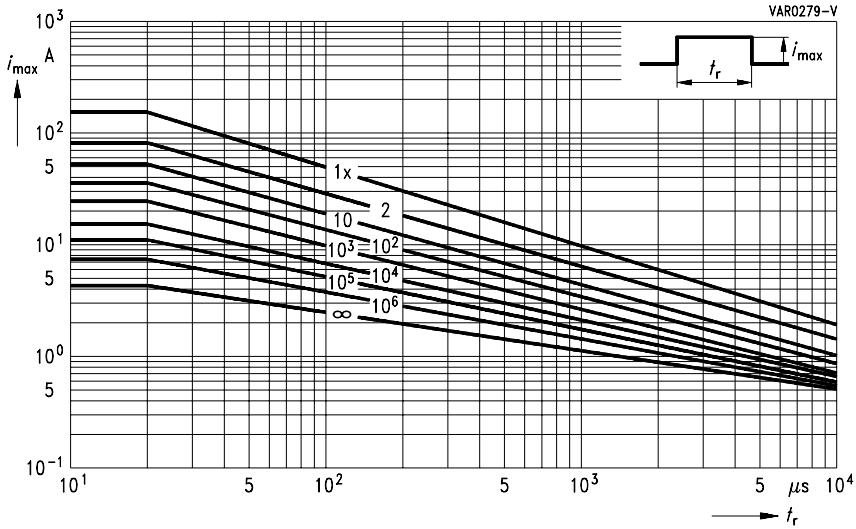
SIOV-CT/CN0805K20G ... K30G

SIOV Metal Oxide Varistors

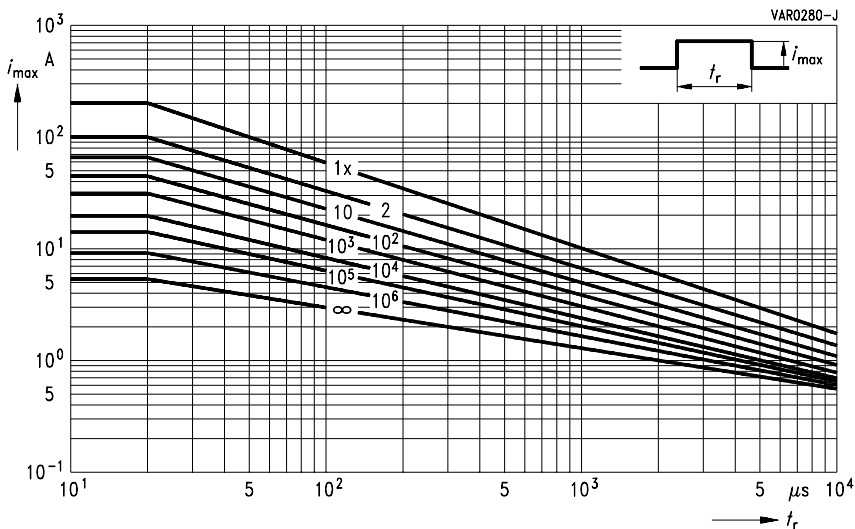
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN1206M4G



SIOV-CT/CN1206M6G ... K30G
SIOV-CT/CN1210K50G ... K60G

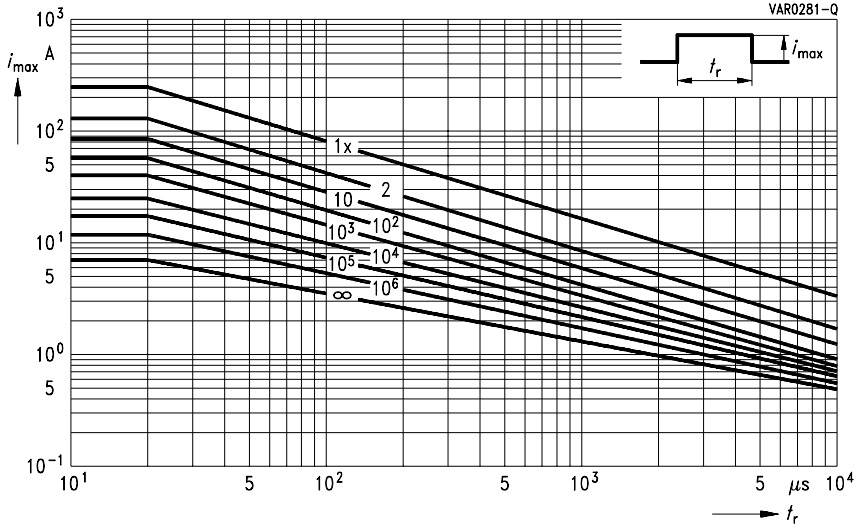
SIOV-CT/CN1206S14BAUTOG

SIOV Metal Oxide Varistors

Derating Curves

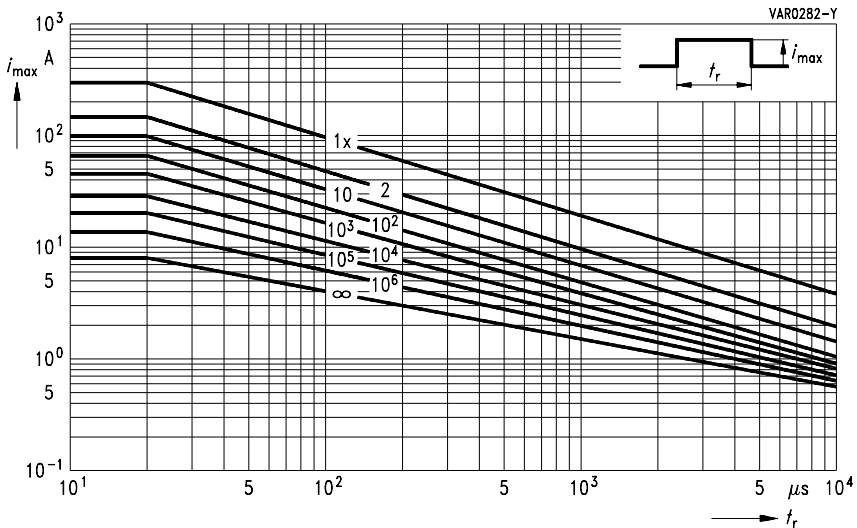
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN1210M4G

SIOV-CT/CN1210K35G ... K40G



SIOV-CT/CN1210M6G

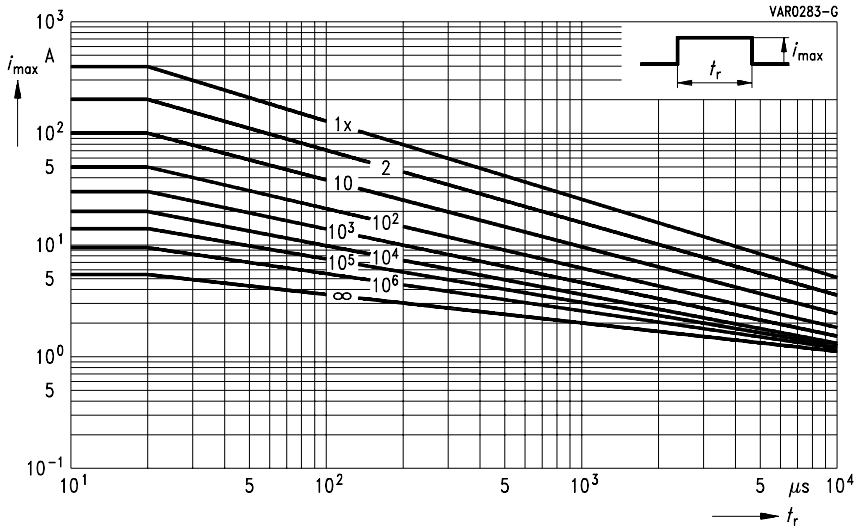
SIOV-CT/CN1210K25G ... K30G

SIOV Metal Oxide Varistors

Derating Curves

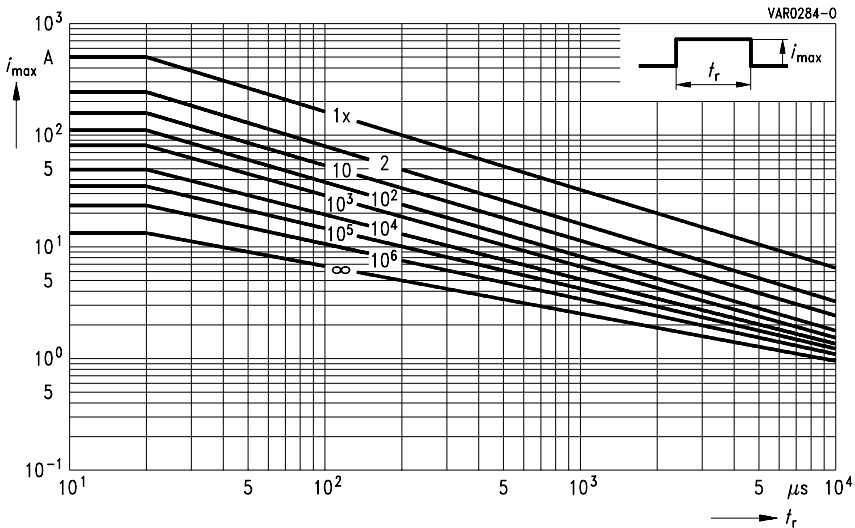
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN1210L8G ... K20G
SIOV-CT/CN1812K50G ... K60G

SIOV-CT/CN1210S14BAUTOG



SIOV-CT/CN1812M4G ... M6G

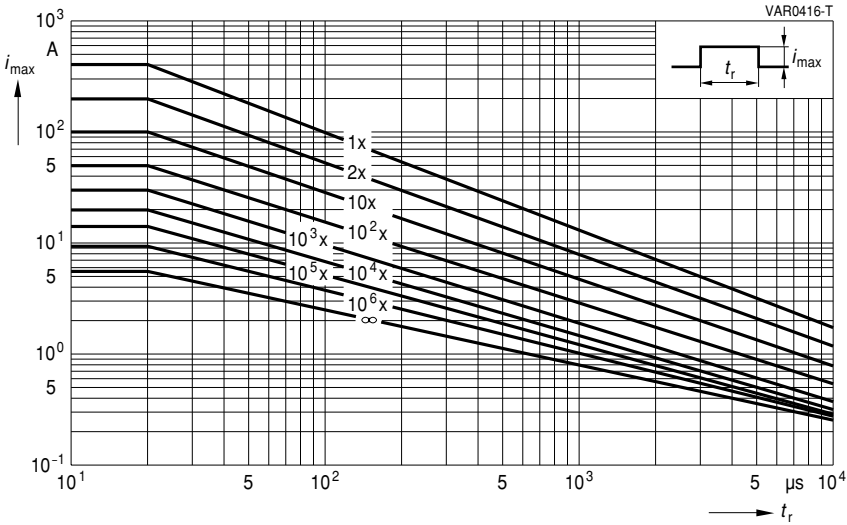
SIOV-CT/CN1812K35G ... K40G

SIOV Metal Oxide Varistors

Derating Curves

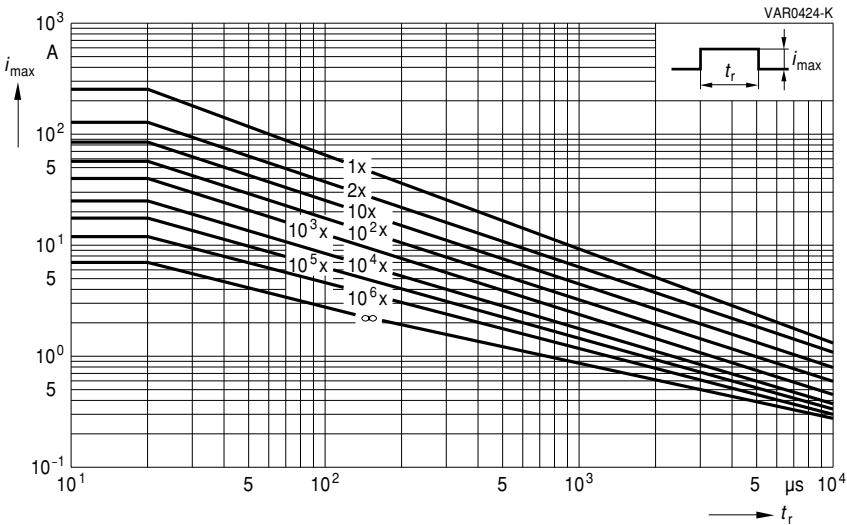
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN1812S60AG2

SIOV-CT/CN1812K75TELEG2



SIOV-CT/CN1812S95AG2

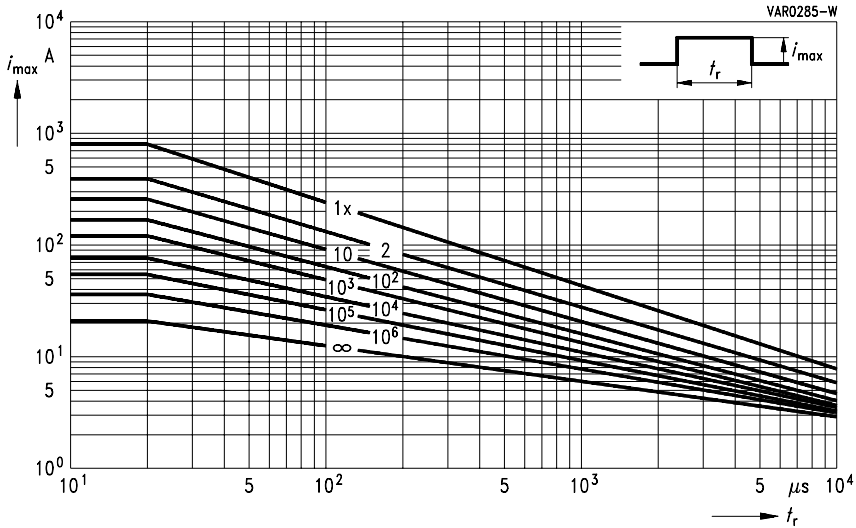
SIOV-CT/CN1812K115 ... K130TELEG2

SIOV Metal Oxide Varistors

Derating Curves

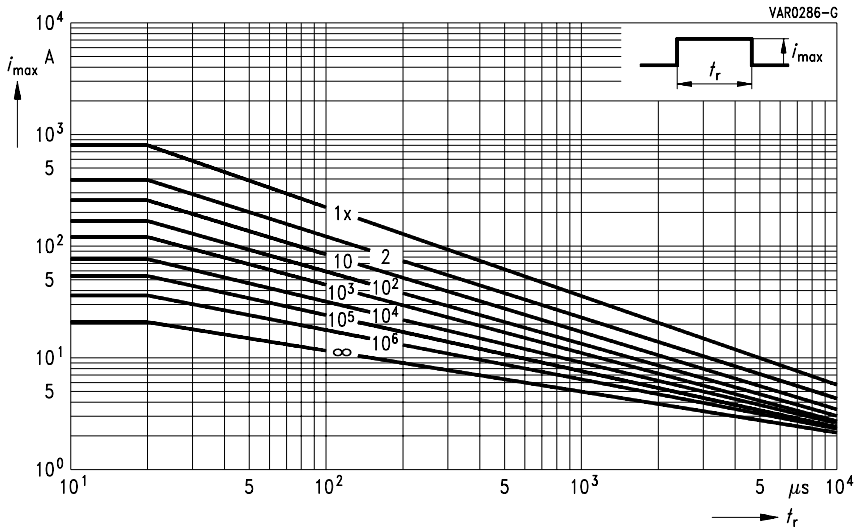
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves refer to section 1.8.1)



SIOV-CT/CN1812L8G ... K30G
SIOV-CT/CN1812S14BAUTOG

SHCV-SR1 ... X/Z



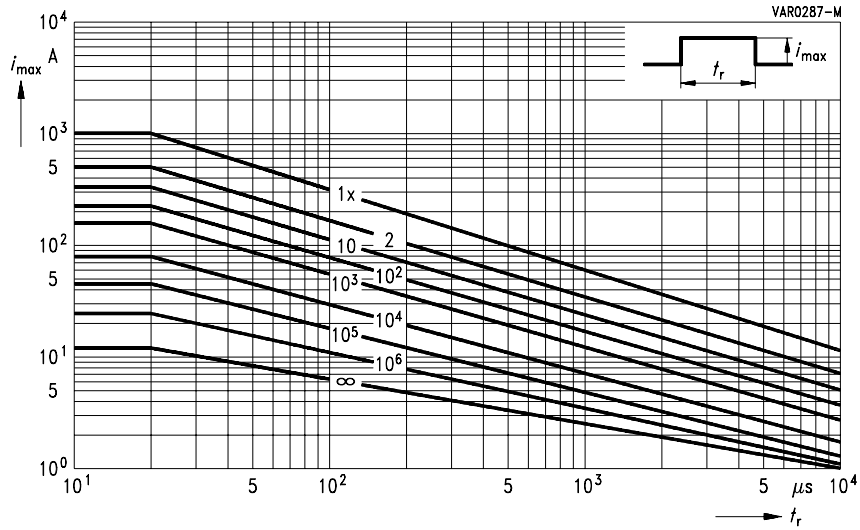
SIOV-CT/CN2220K50G ... K60G

SIOV Metal Oxide Varistors

Derating Curves

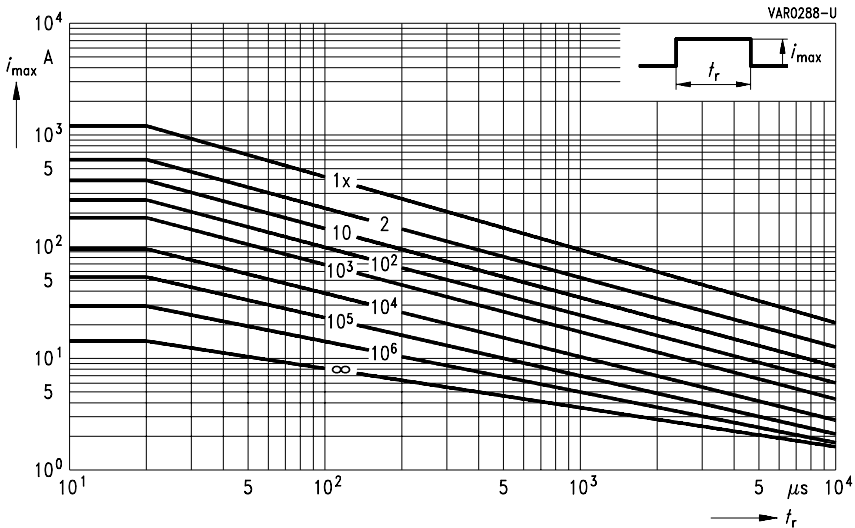
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-CT/CN2220M4G

SIOV-CT/CN2220K35G ... K40G



SIOV-CT/CN2220M6G ... K30G

SHCV-SR2 ... X/Z

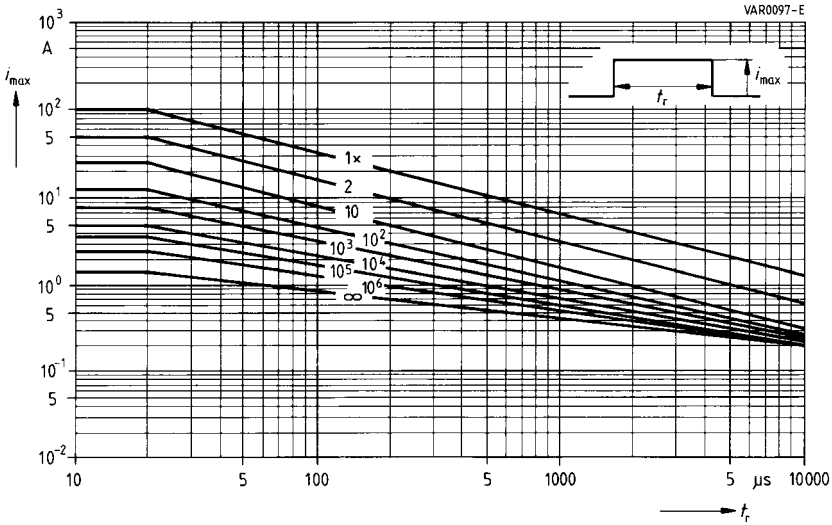
SIOV-CT/CN2220 ... AUTO(E2)G(2)

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

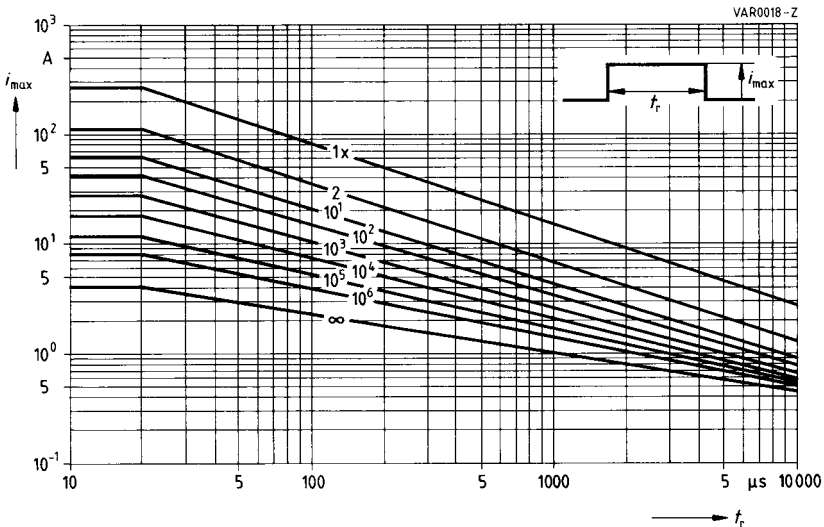
$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S05K11 ... K40

SIOV-CU3225K11G2 ... K40G2

SIOV-CU3225K14AUTOG2 ... K30AUTOG2



SIOV-S07K11 ... K40

SIOV-CU4032K11G2 ... K40G2

SIOV-S07K14AUTOS2D1

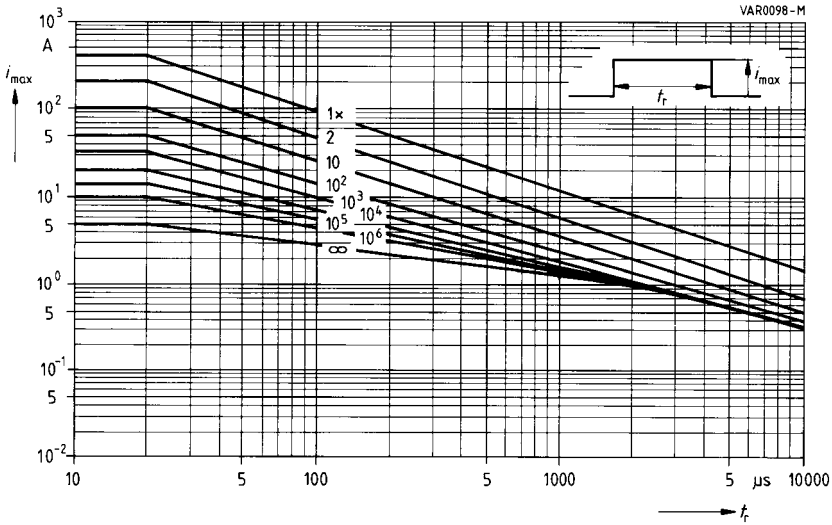
SIOV-CU4032K14AUTOG2 ... K30AUTOG2

SIOV Metal Oxide Varistors

Derating Curves

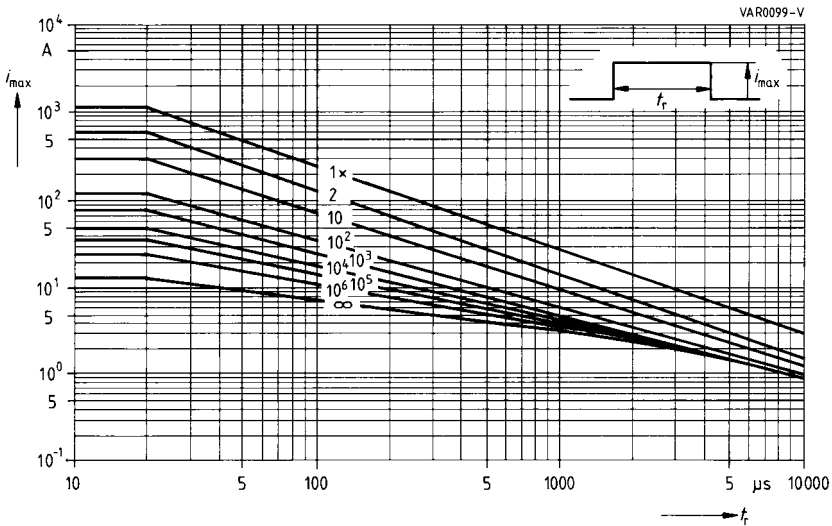
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S05K50 ... K460

SIOV-CU3225K50G2 ... K300G2



SIOV-S07K50 ... K460

SIOV-S07S60AGS2/95AGS2

SIOV-CU4032K50G2 ... K300G2

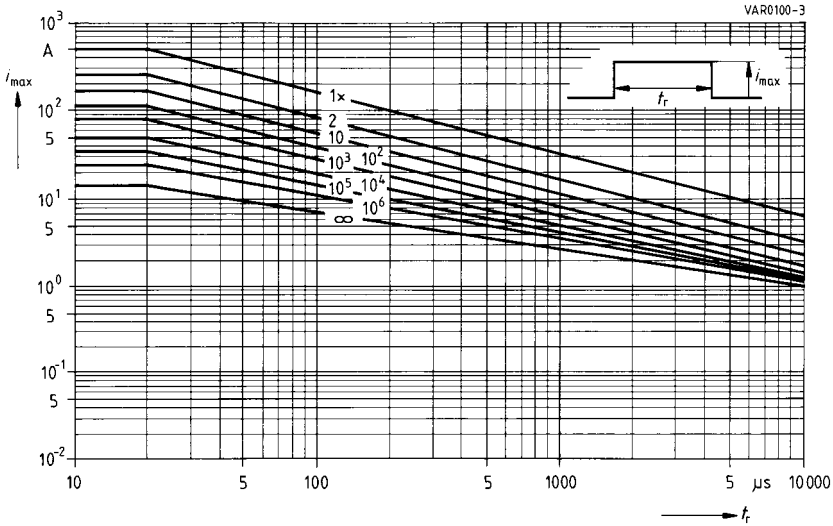
SIOV-CU4032S60AG2/S95AG2

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

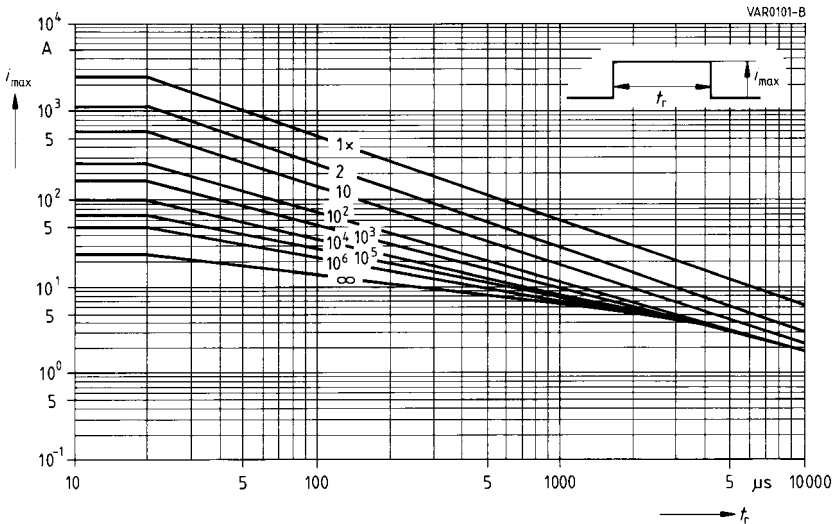
$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S10K11 ... K40

SIOV-S10K14AUTO ... K40AUTO

SIOV-S10K14AUTOS5D1



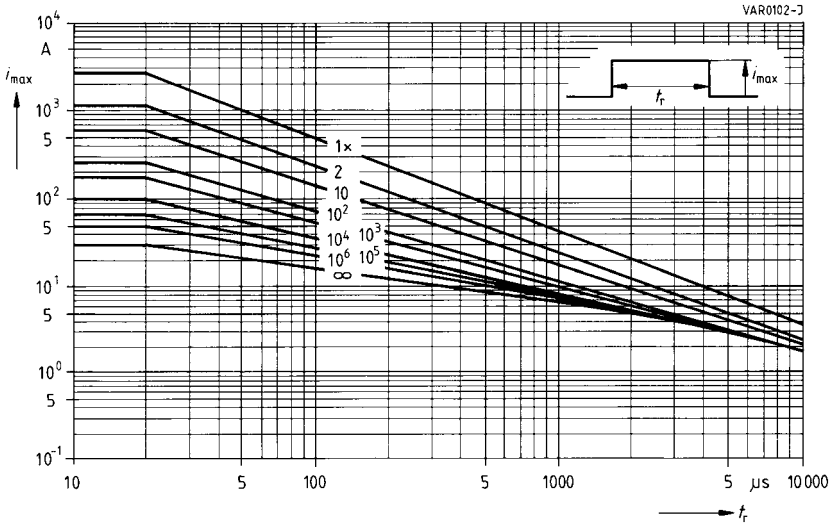
SIOV-S10K50 ... K320

SIOV Metal Oxide Varistors

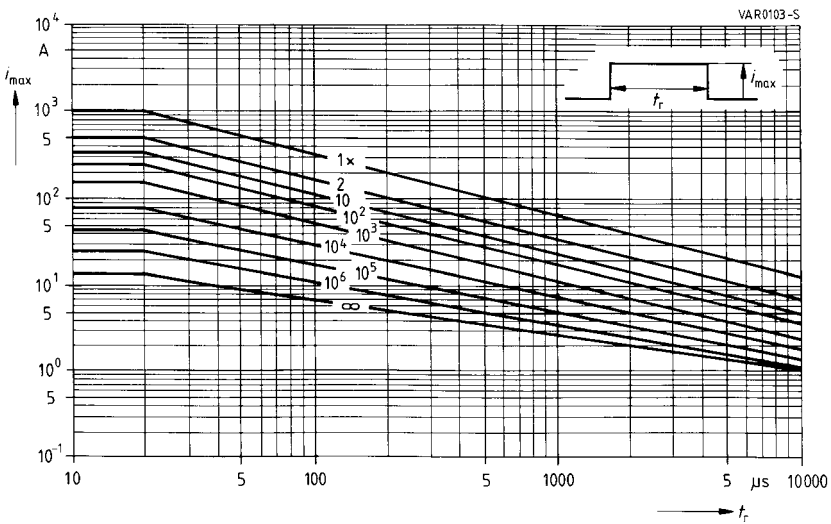
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S10K385 ... K680



SIOV-S14K11 ... K40

SIOV-S14K14AUTO ... K40AUTO

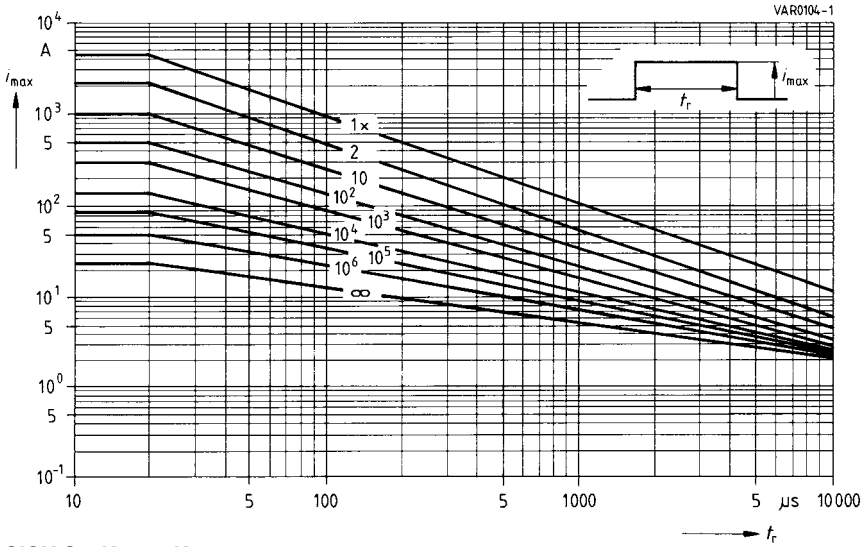
SIOV-S14K14AUTOS5D1

SIOV Metal Oxide Varistors

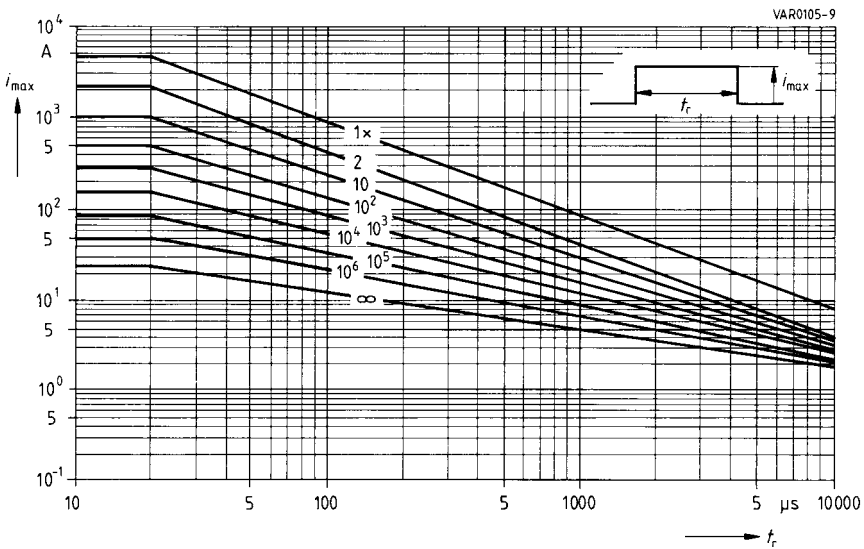
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{ pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S14K50 ... K320



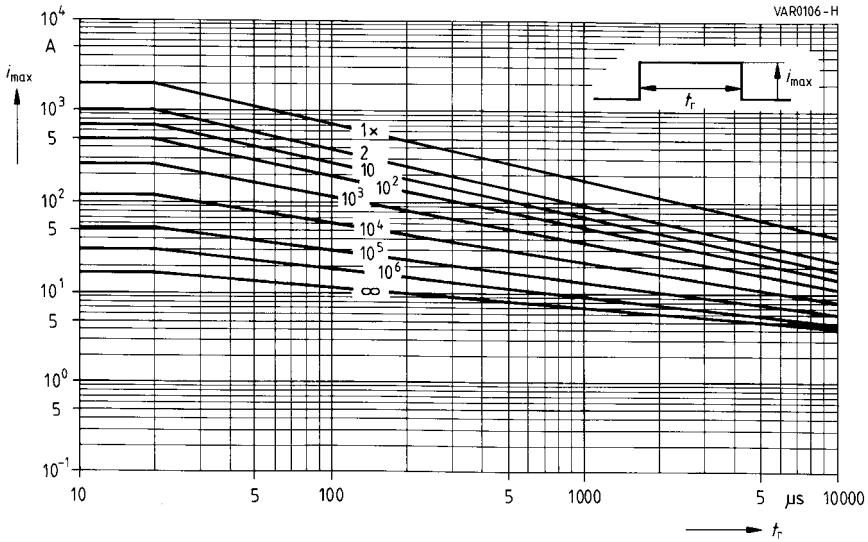
SIOV-S14K385 ... K1000

SIOV Metal Oxide Varistors

Derating Curves

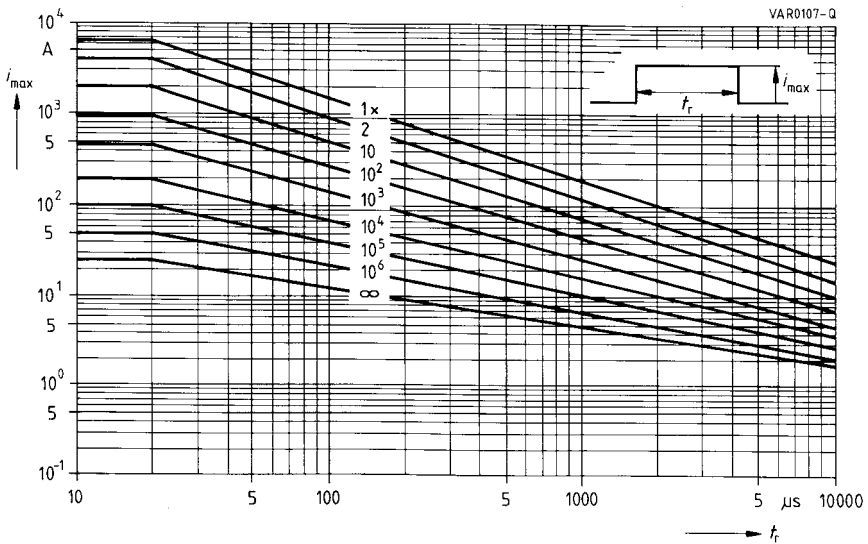
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S20K11 ... K40

SIOV-S20K14AUTO ... K30AUTO



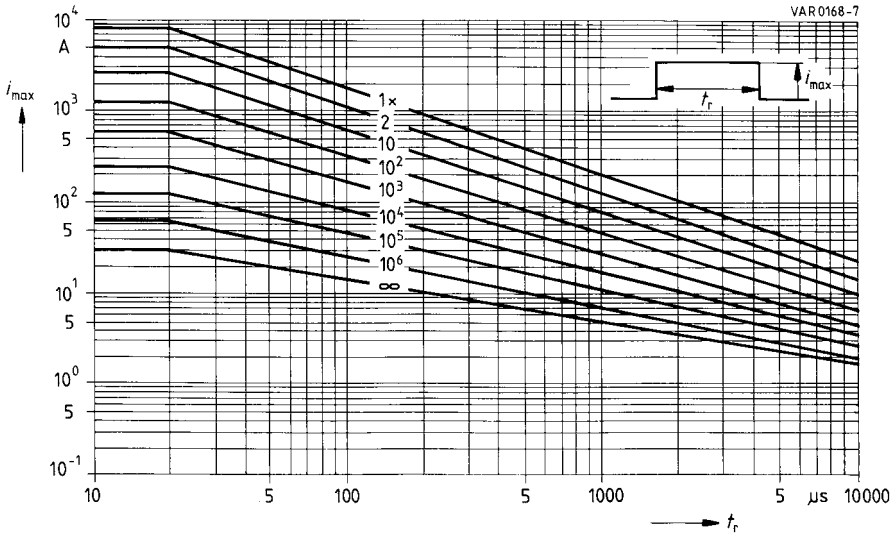
SIOV-S20K50 ... K115

SIOV Metal Oxide Varistors

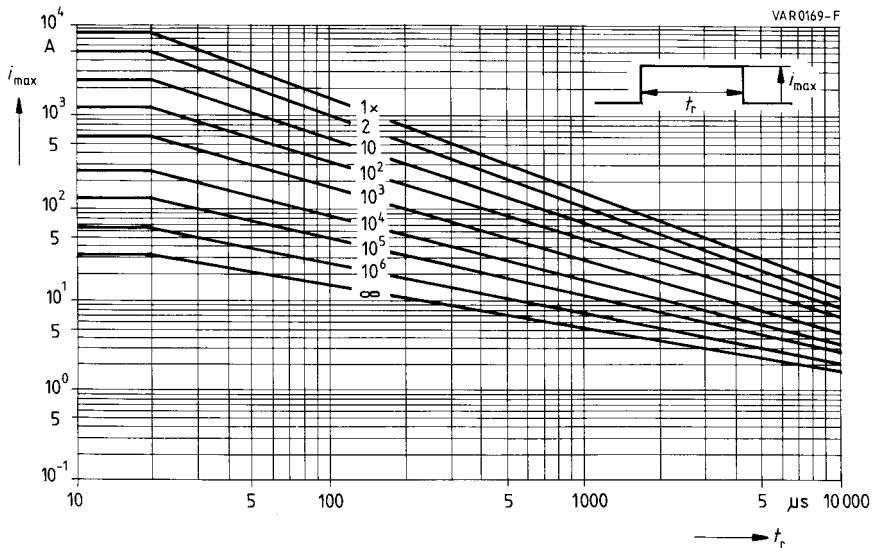
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S20K130 ... K320



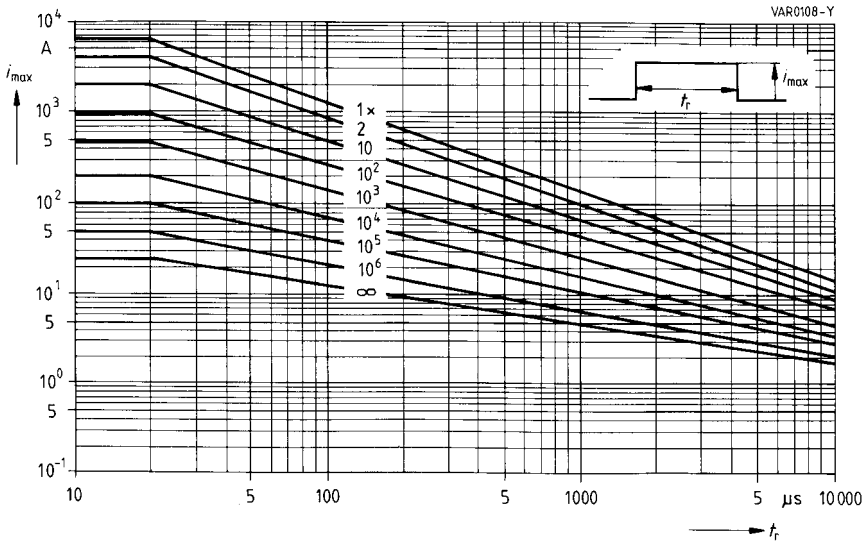
SIOV-S20K385 ... K460

SIOV Metal Oxide Varistors

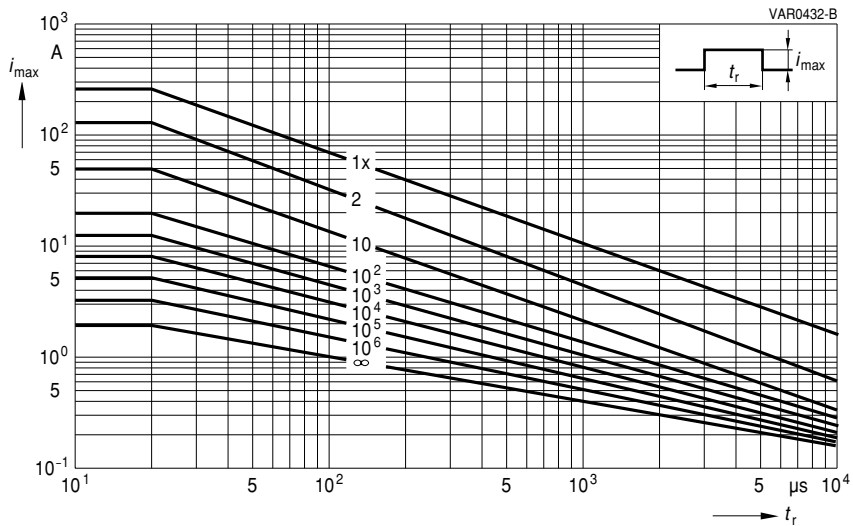
Derating Curves

Maximum surge current

$i_{\max} = f(t_r)$, pulse train – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S20K510 ... K1000



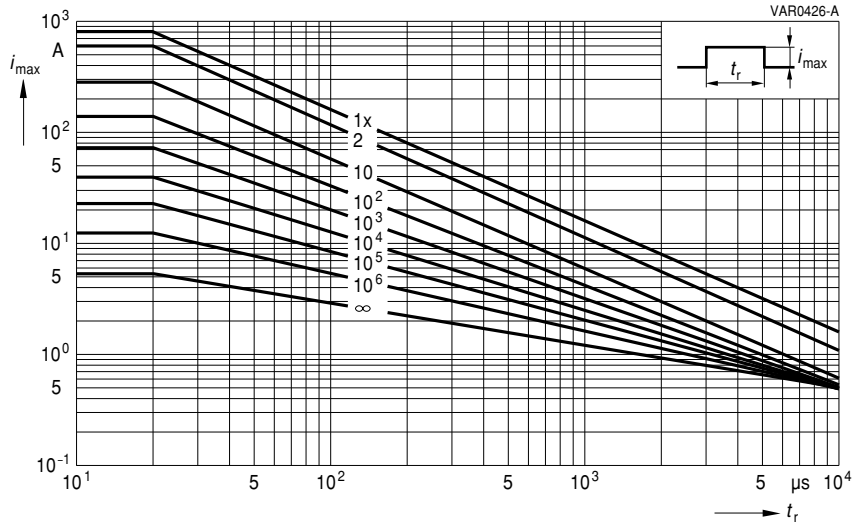
SIOV-S05K11 ... K40E2

SIOV Metal Oxide Varistors

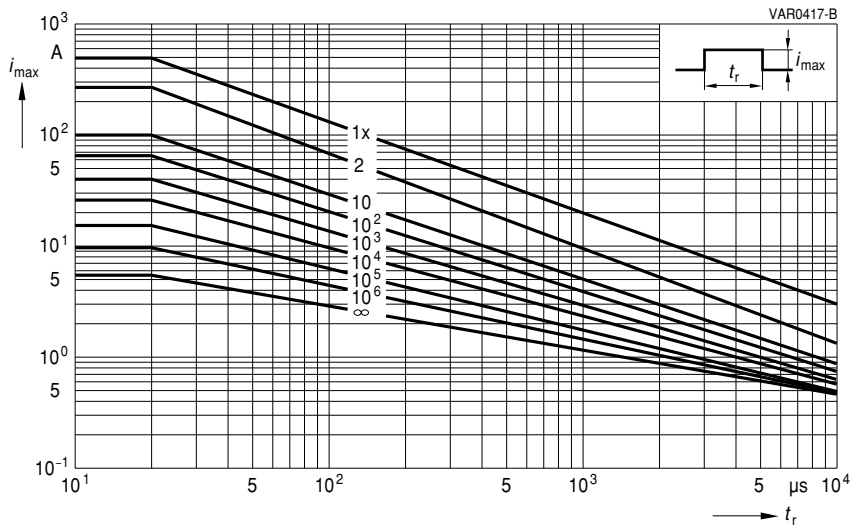
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S05K50 ... K300E2



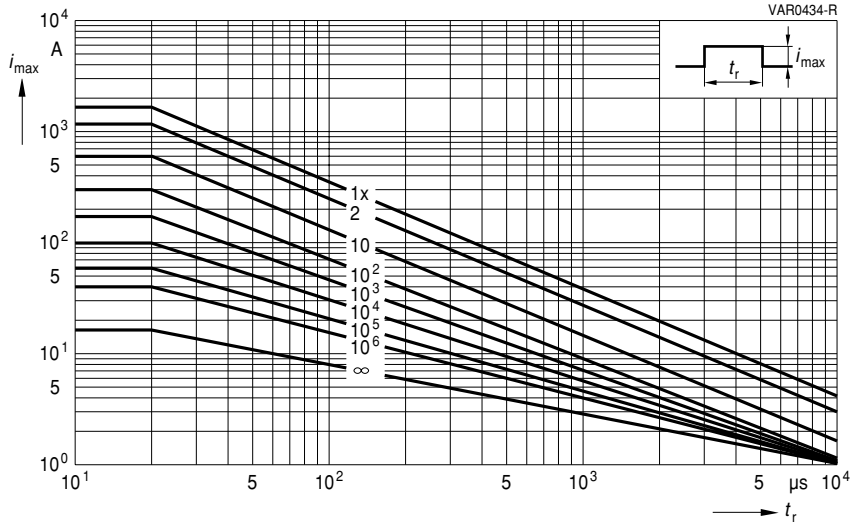
SIOV-S07K11 ... K40E2

SIOV Metal Oxide Varistors

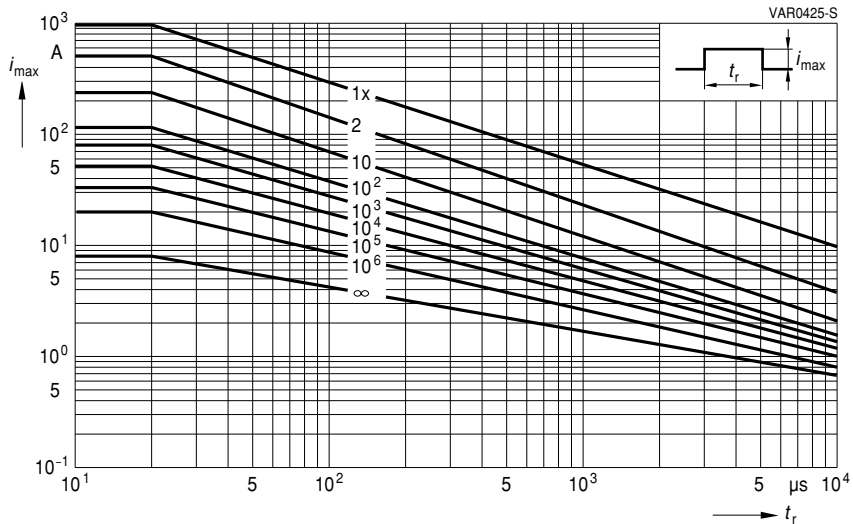
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S07K50 ... K320E2



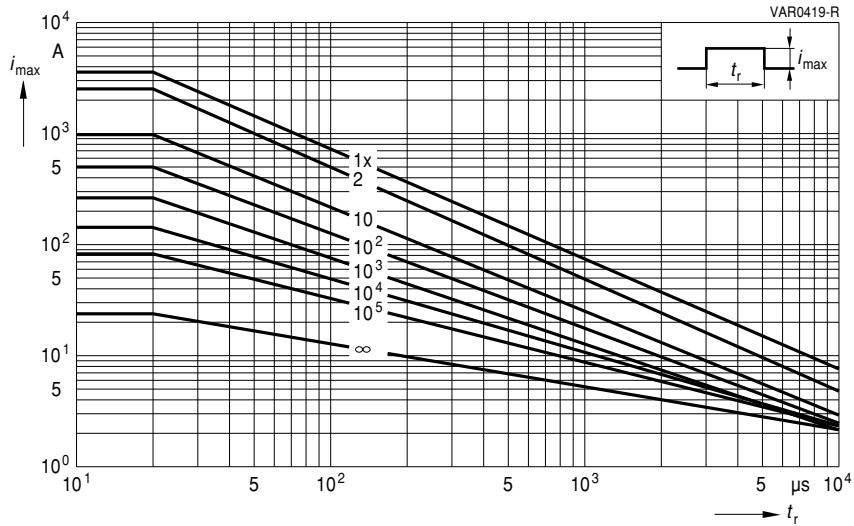
SIOV-S10K11 ... K40E2

SIOV Metal Oxide Varistors

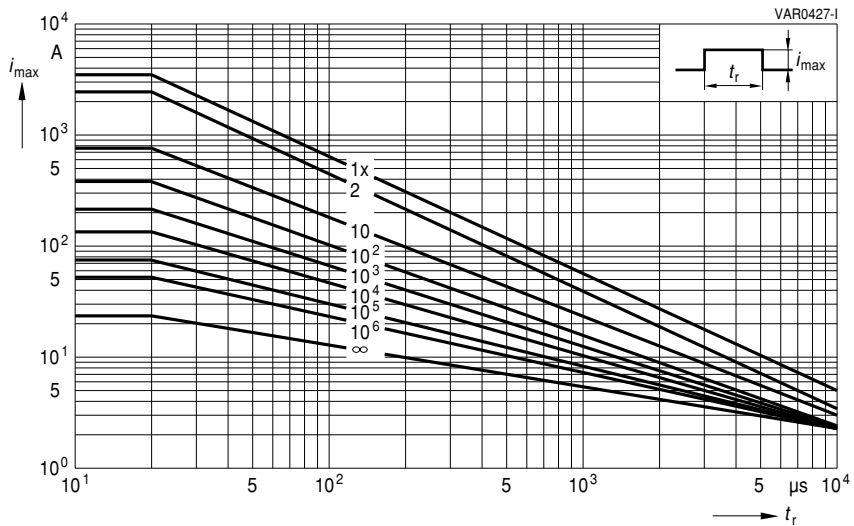
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S10K50 ... K320E2



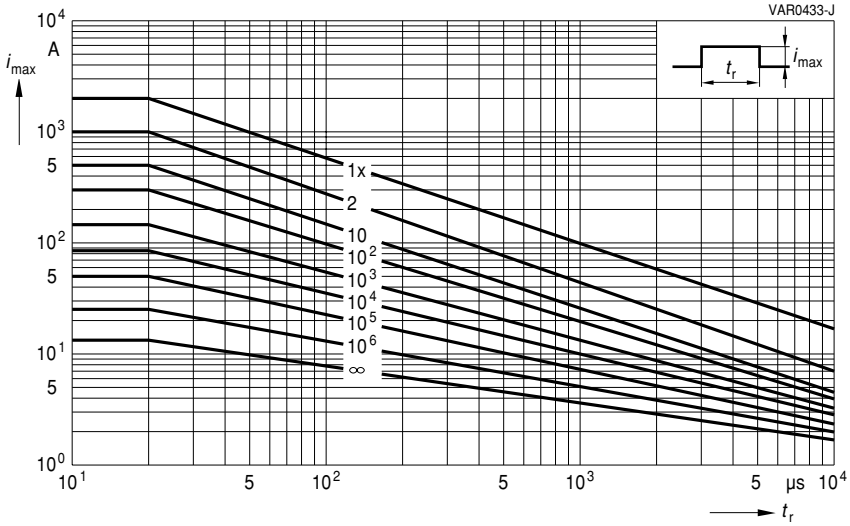
SIOV-S10K385 ... K680E2

SIOV Metal Oxide Varistors

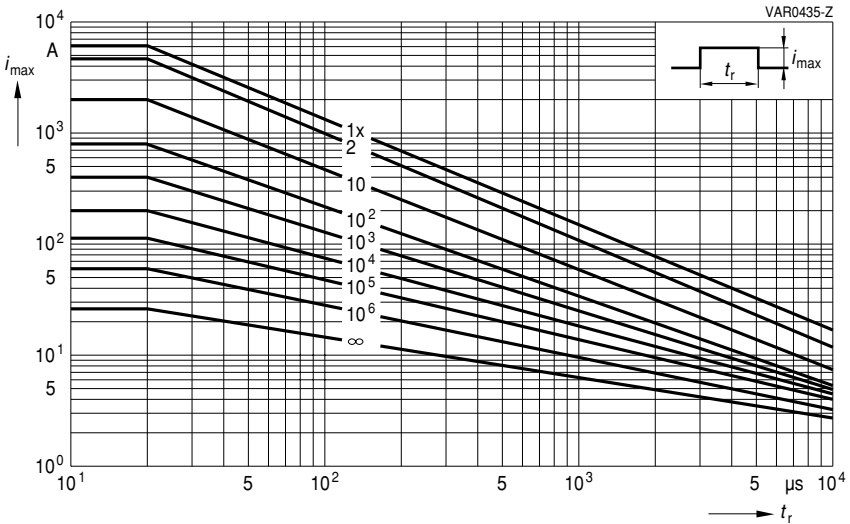
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S14K11 ... K40E2



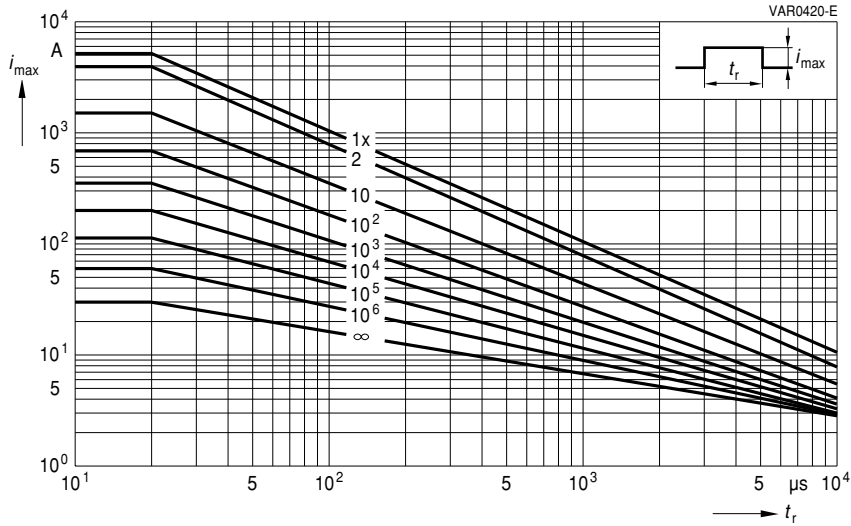
SIOV-S14K50 ... K320E2

SIOV Metal Oxide Varistors

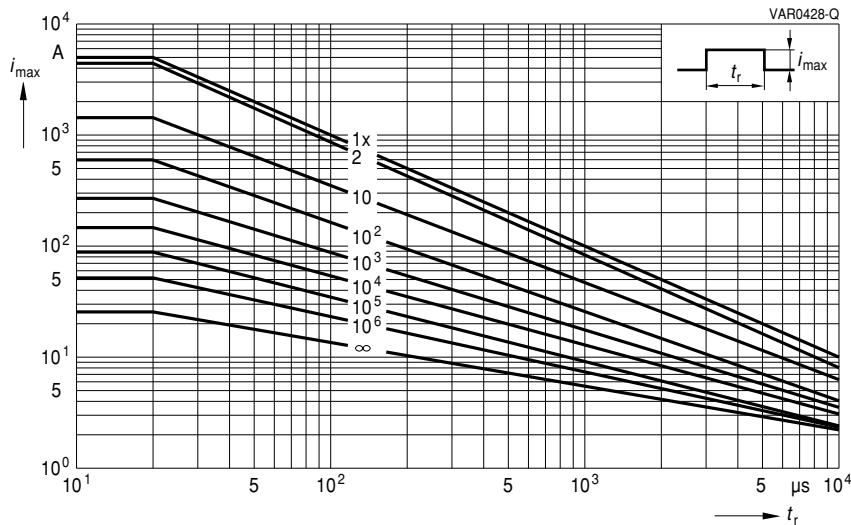
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S14K385 ... K680E2



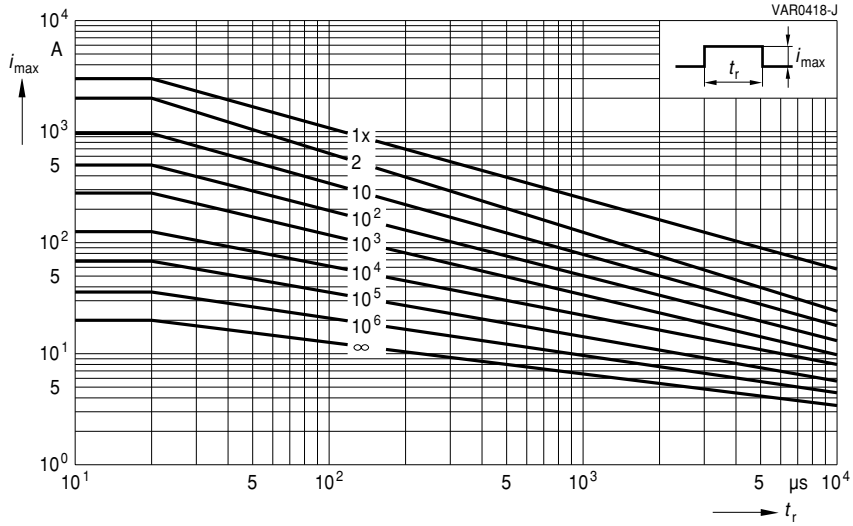
SIOV-S14K1000E2

SIOV Metal Oxide Varistors

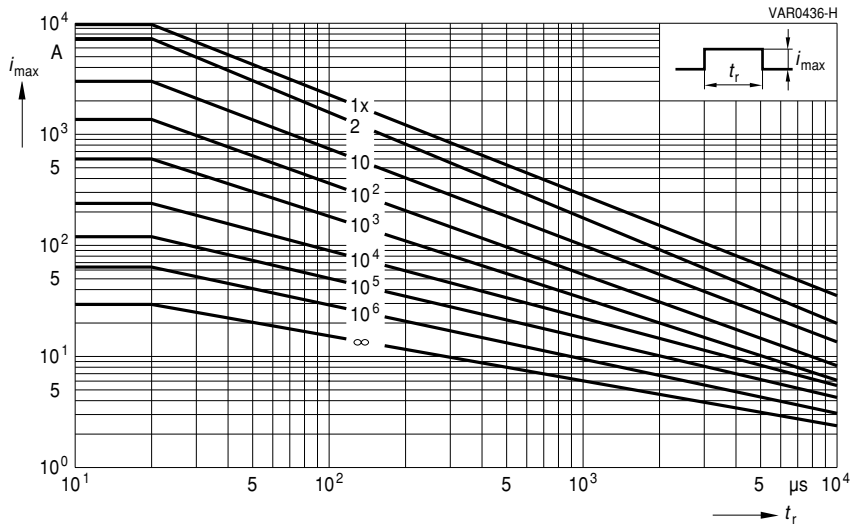
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S20K11 ... K40E2



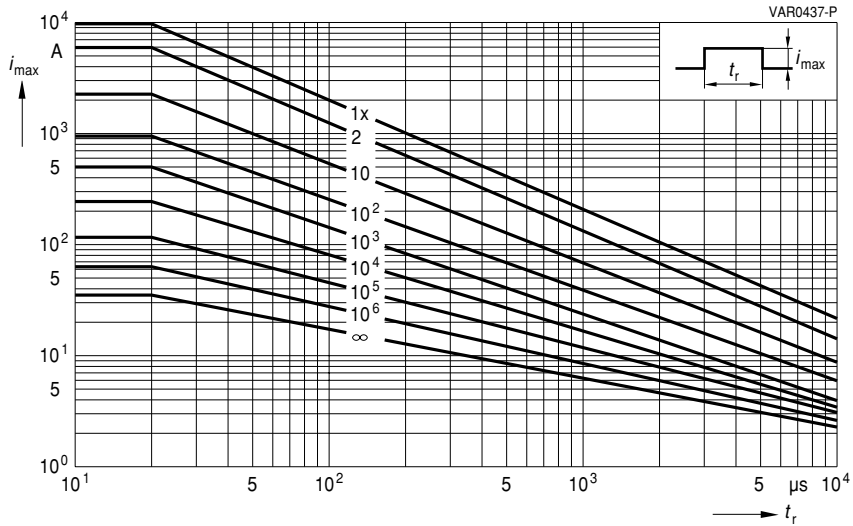
SIOV-S20K50 ... K320E2

SIOV Metal Oxide Varistors

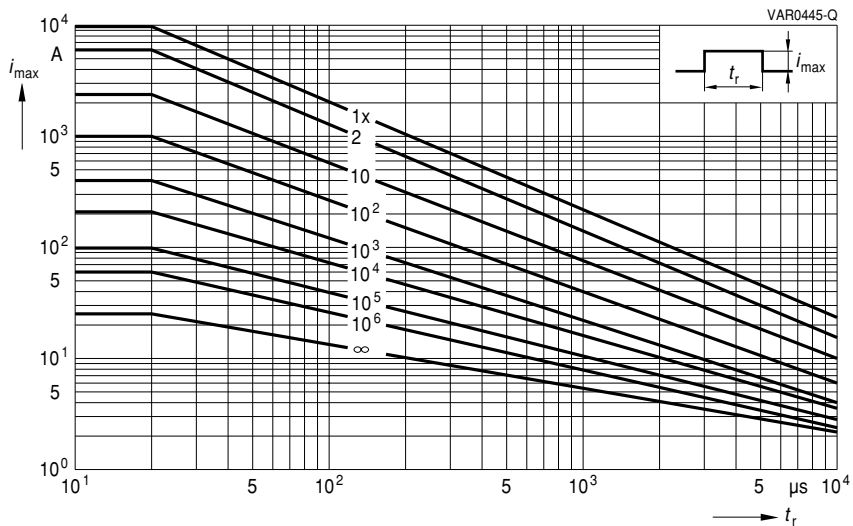
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S20K385 ... K680E2



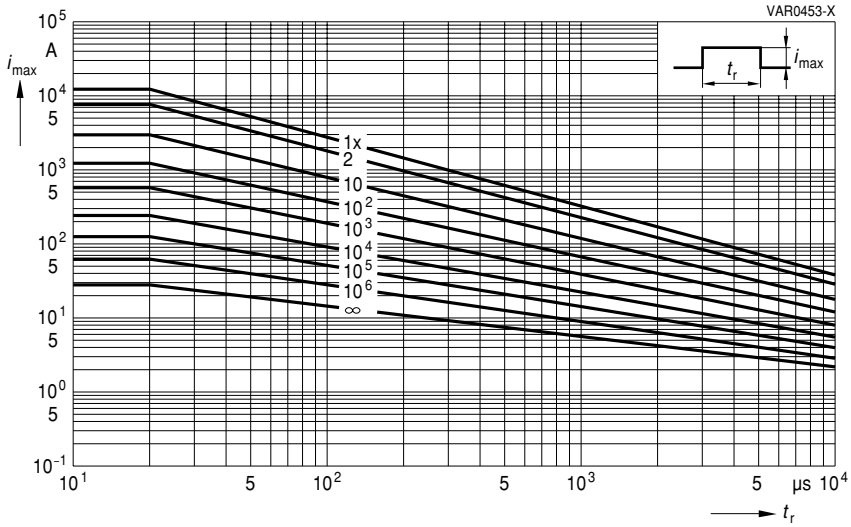
SIOV-S20K1000E2

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



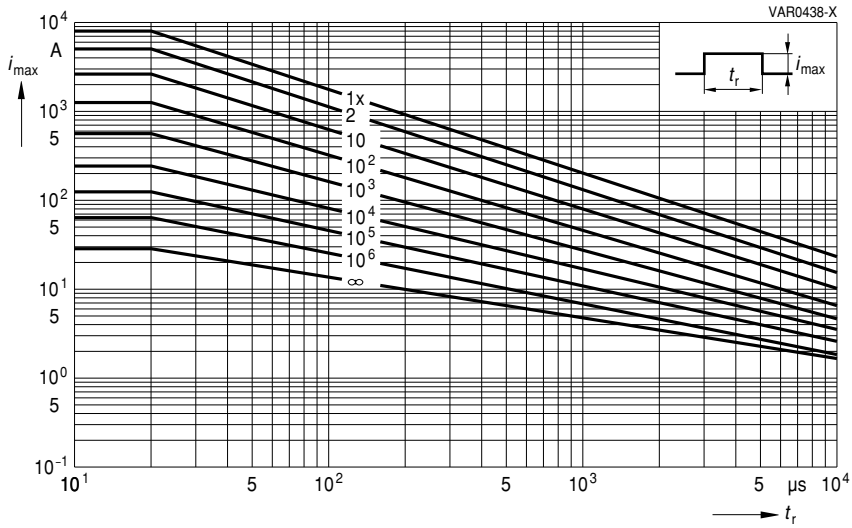
SIOV-S20K115 ... K320E3

SIOV Metal Oxide Varistors

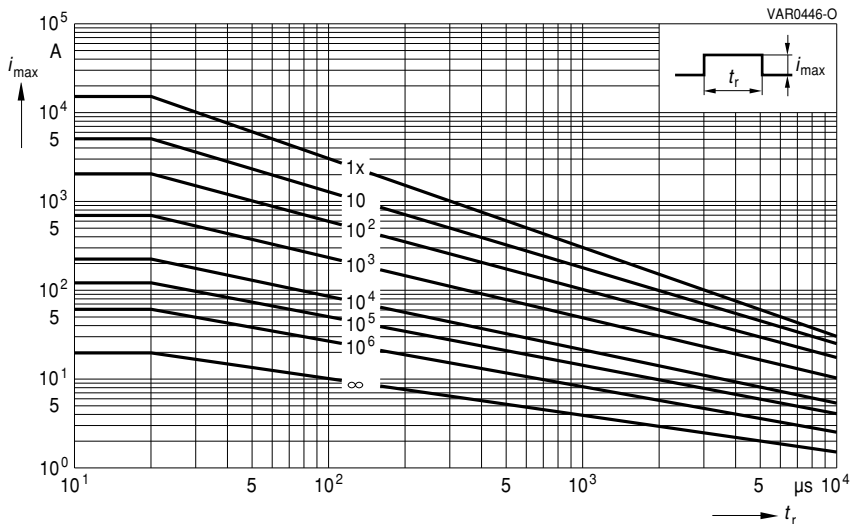
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-Q14K130 ... K320



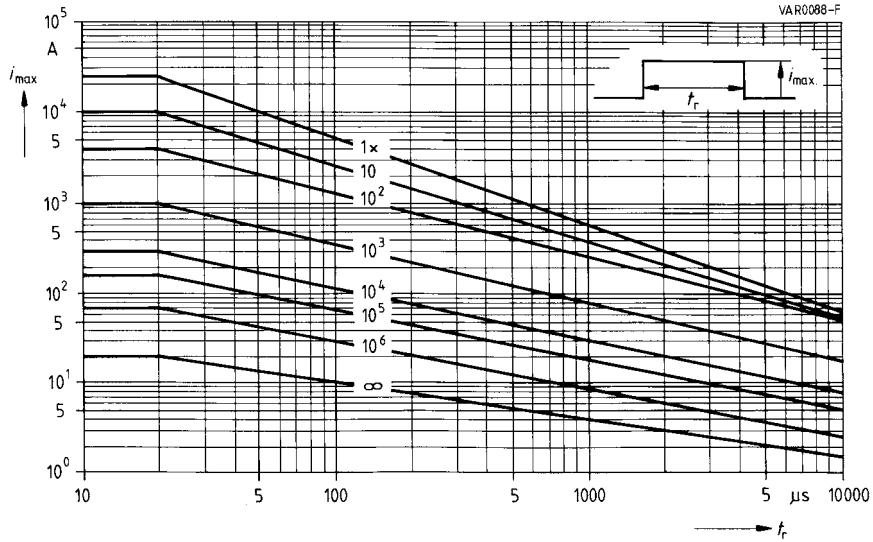
SIOV-Q20K130 ... K320

SIOV Metal Oxide Varistors

Derating Curves

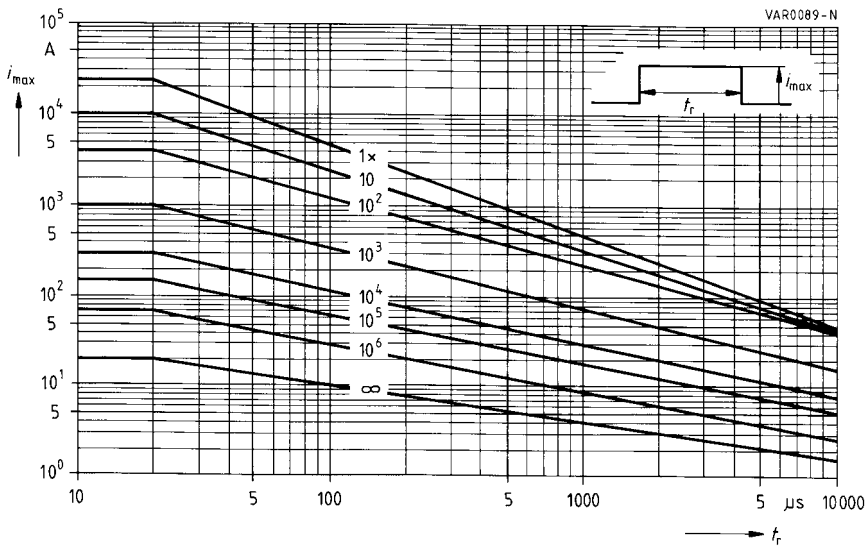
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-B32K130 ... K150

SIOV-B40K75



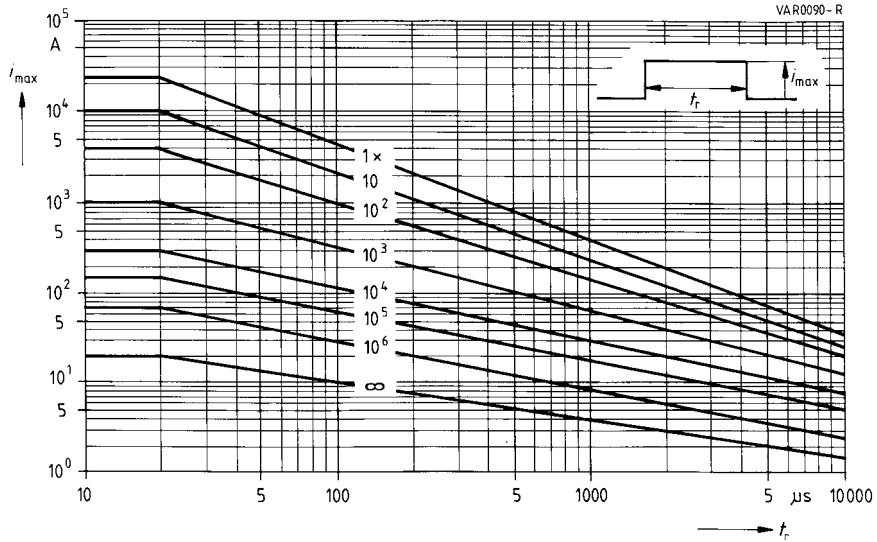
SIOV-B32K230 ... K460

SIOV Metal Oxide Varistors

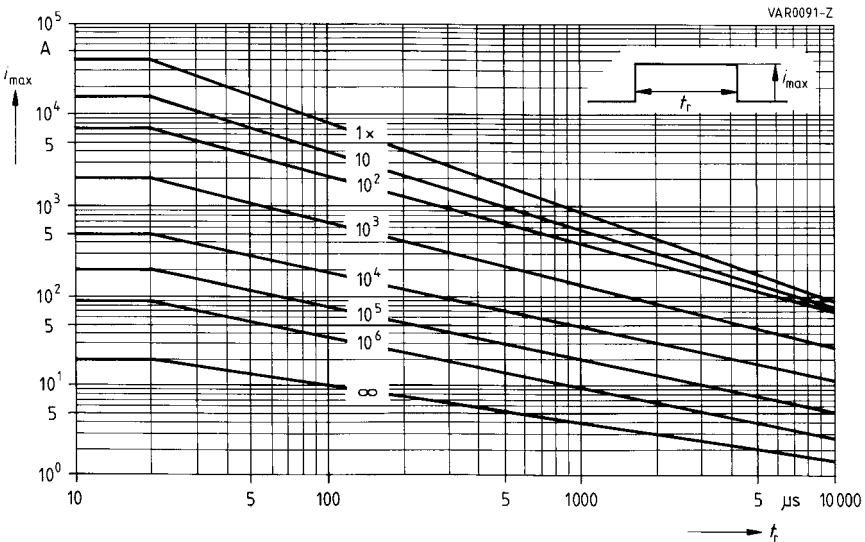
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves refer to section 1.8.1)



SIOV-B32K550 ... K750



SIOV-B40K130 ... K150

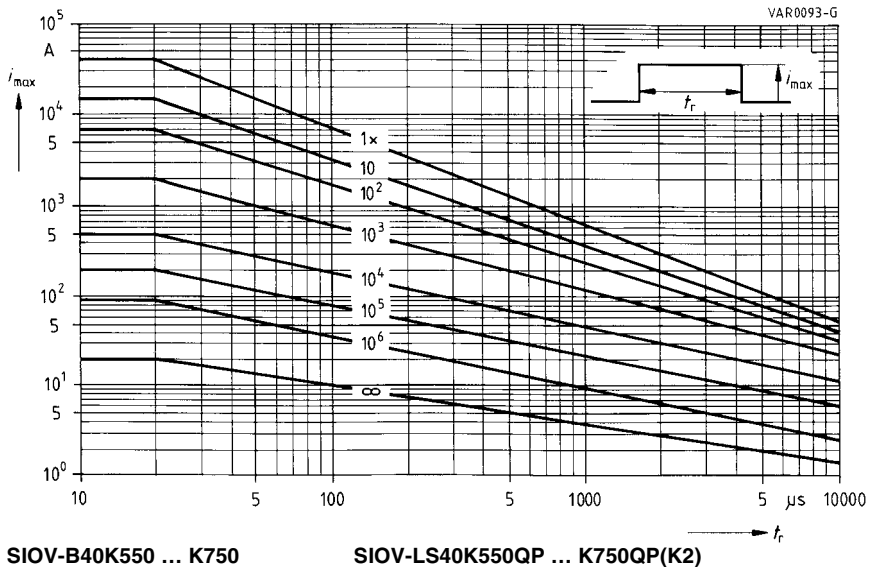
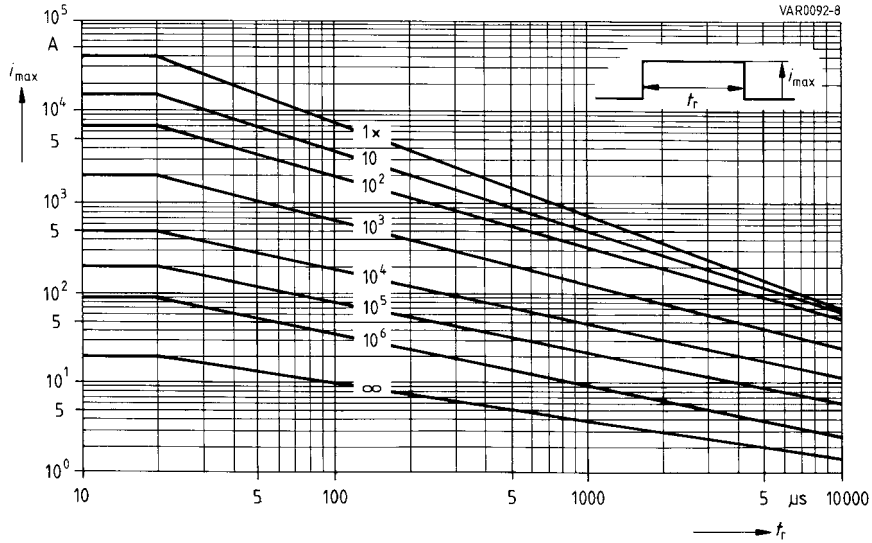
SIOV-LS40K130QP ... K150QP(K2)

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)

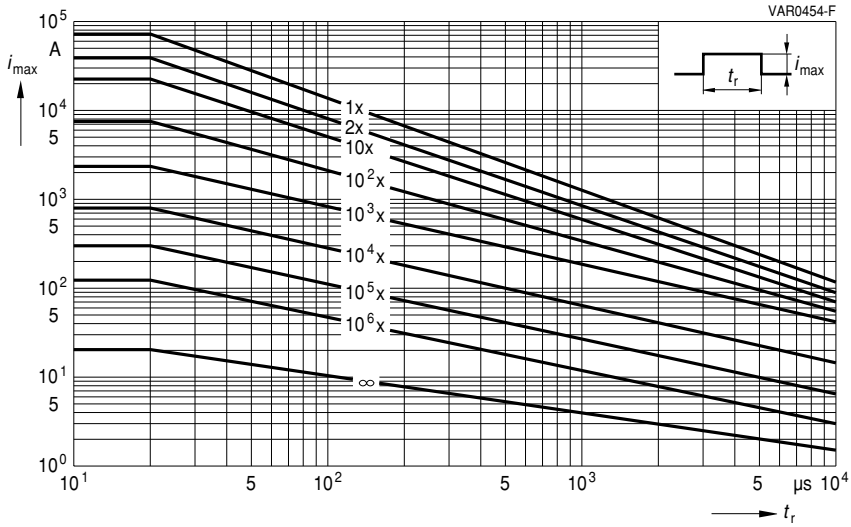


SIOV Metal Oxide Varistors

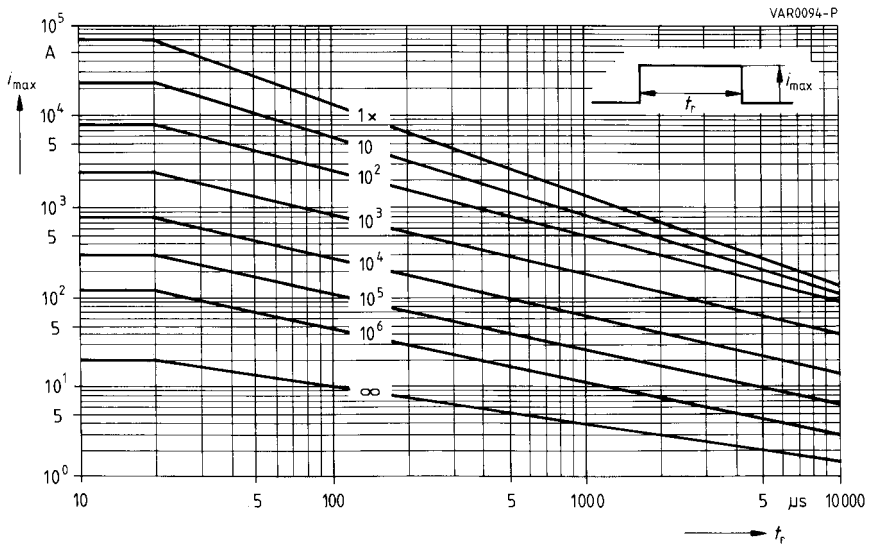
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-LS50K130 ... K550P(K2)



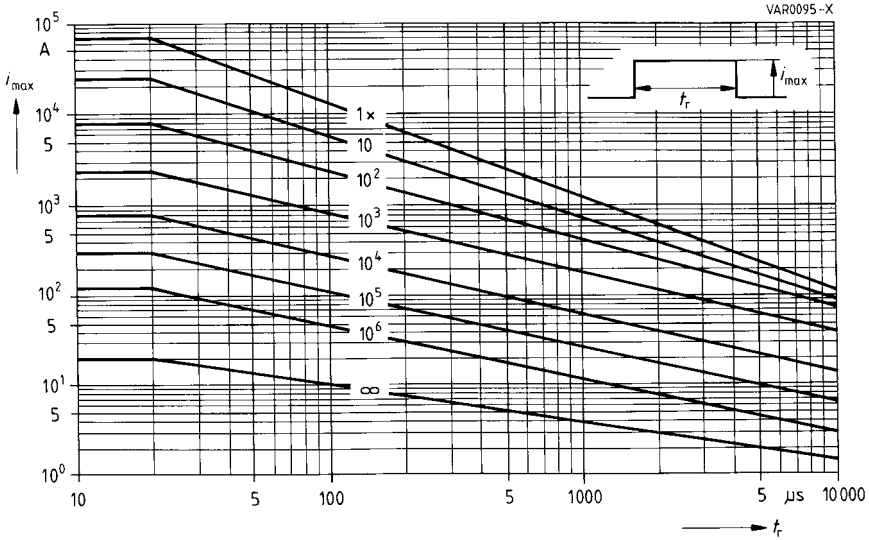
SIOV-B60K130 ... K150

SIOV Metal Oxide Varistors

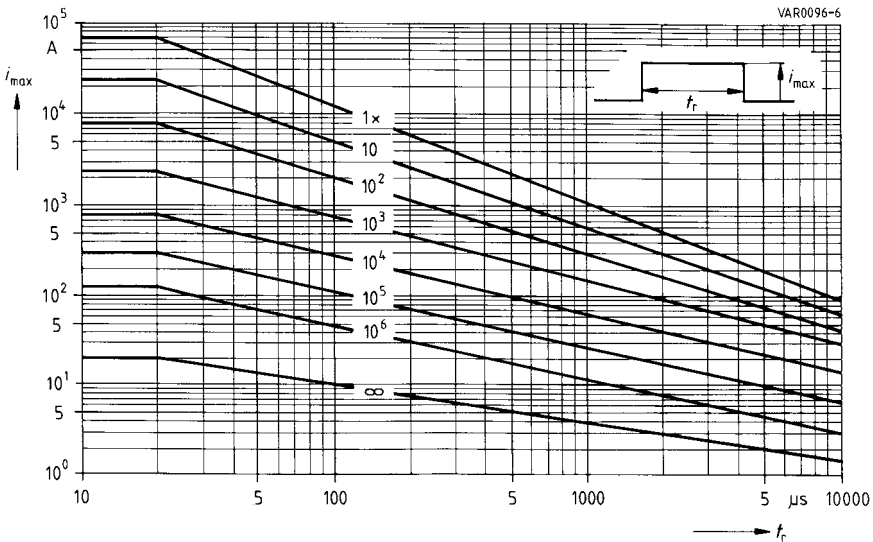
Derating Curves

Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-B60K230 ... K460



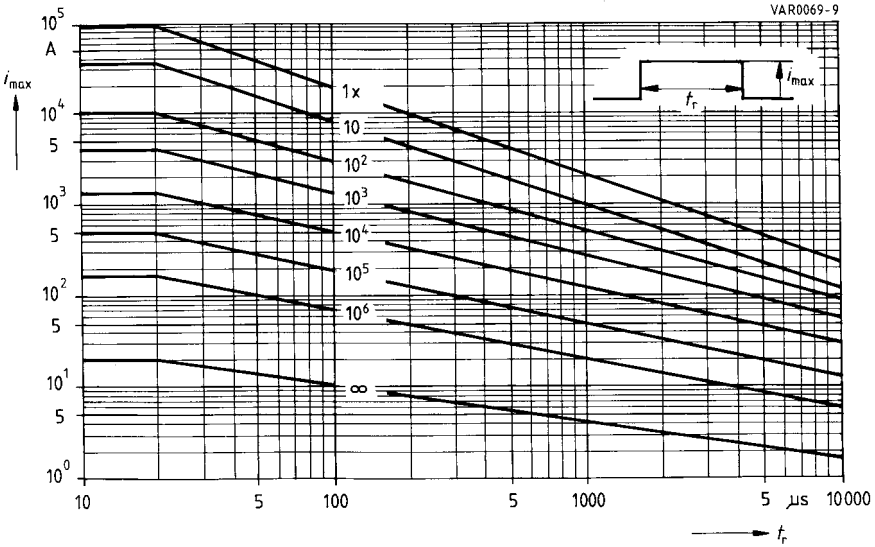
SIOV-B60K550 ... K1000

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

$i_{\max} = f(t_r)$, pulse train – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-B80K130 ... K1100

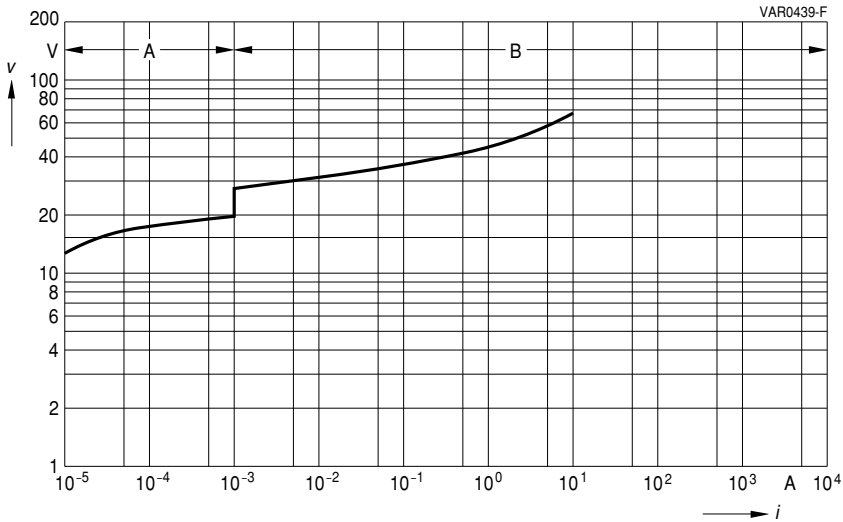
SIOV Metal Oxide Varistors

V/I Characteristics

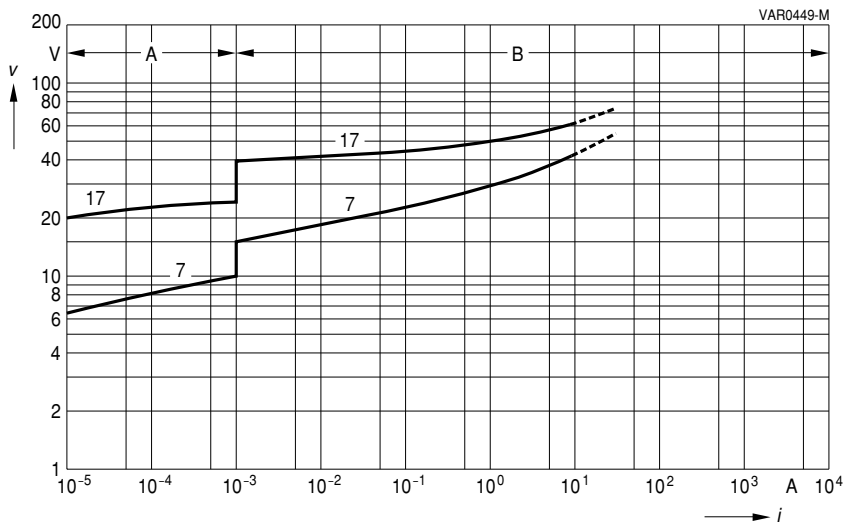
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN0402L14G(K2)



SIOV-CA06P4M7GK2
SIOV-CA06P4S17ALCGK2

SIOV-CA05P4S17ALCGK2
SIOV-CA04P2S17ALCGK2

SIOV Metal Oxide Varistors

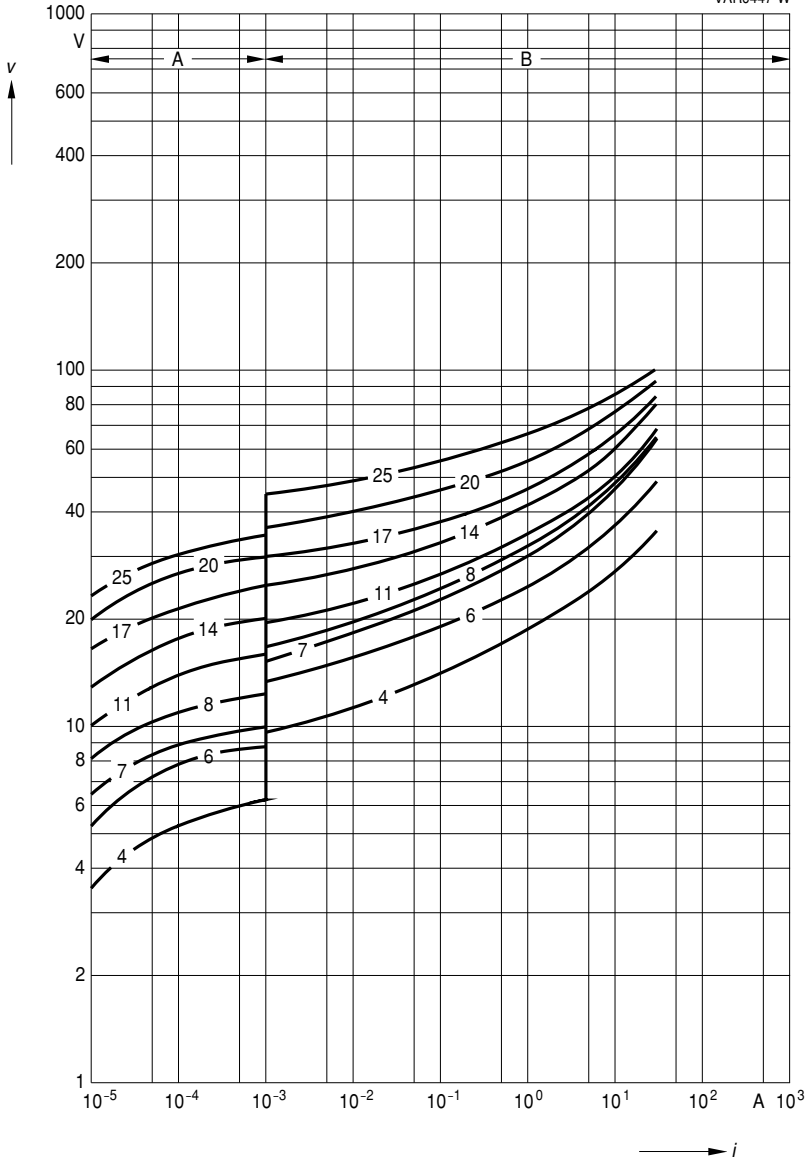
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0447-W



SIOV-CT/CN0603M4G ... K25G

SIOV-CT/CN0603K17LCG

SIOV Metal Oxide Varistors

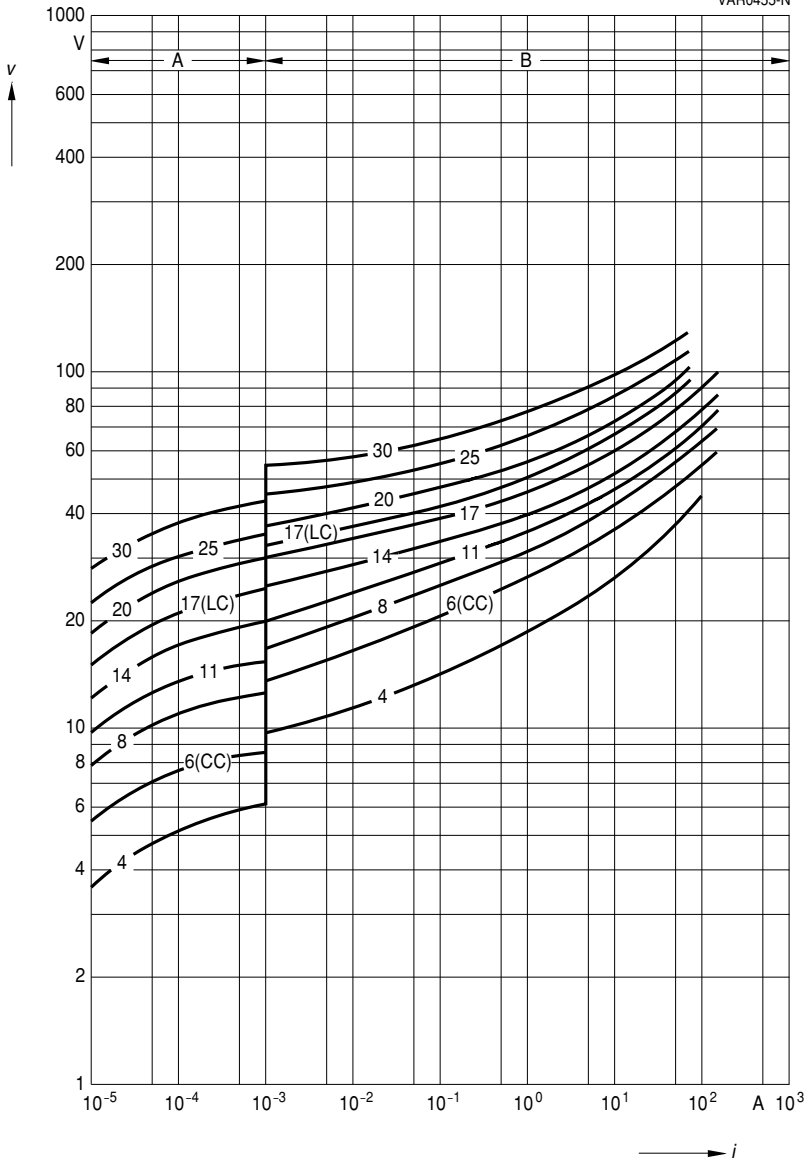
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0455-N



SIOV-CT/CN0805M4G ... K30G

SIOV-CT/CN0805K17LCG

SIOV-CT/CN0805M6CCG

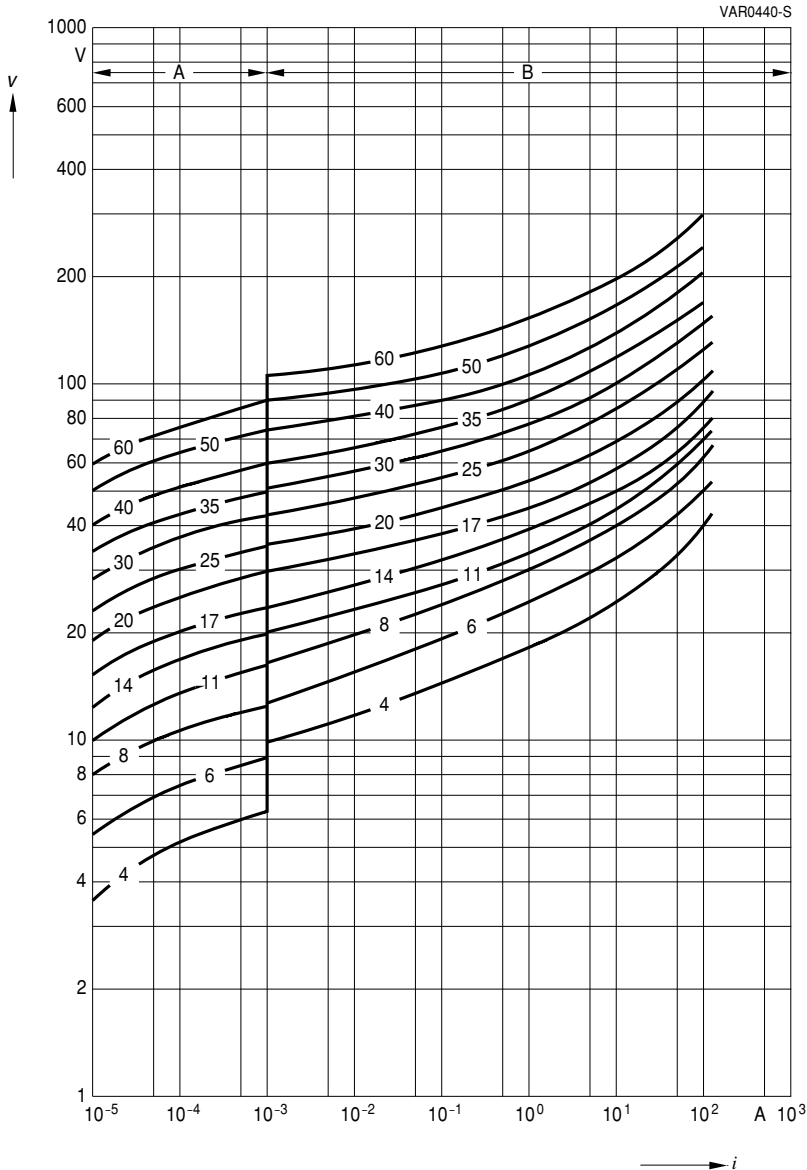
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN1206M4G ... K60G

SIOV Metal Oxide Varistors

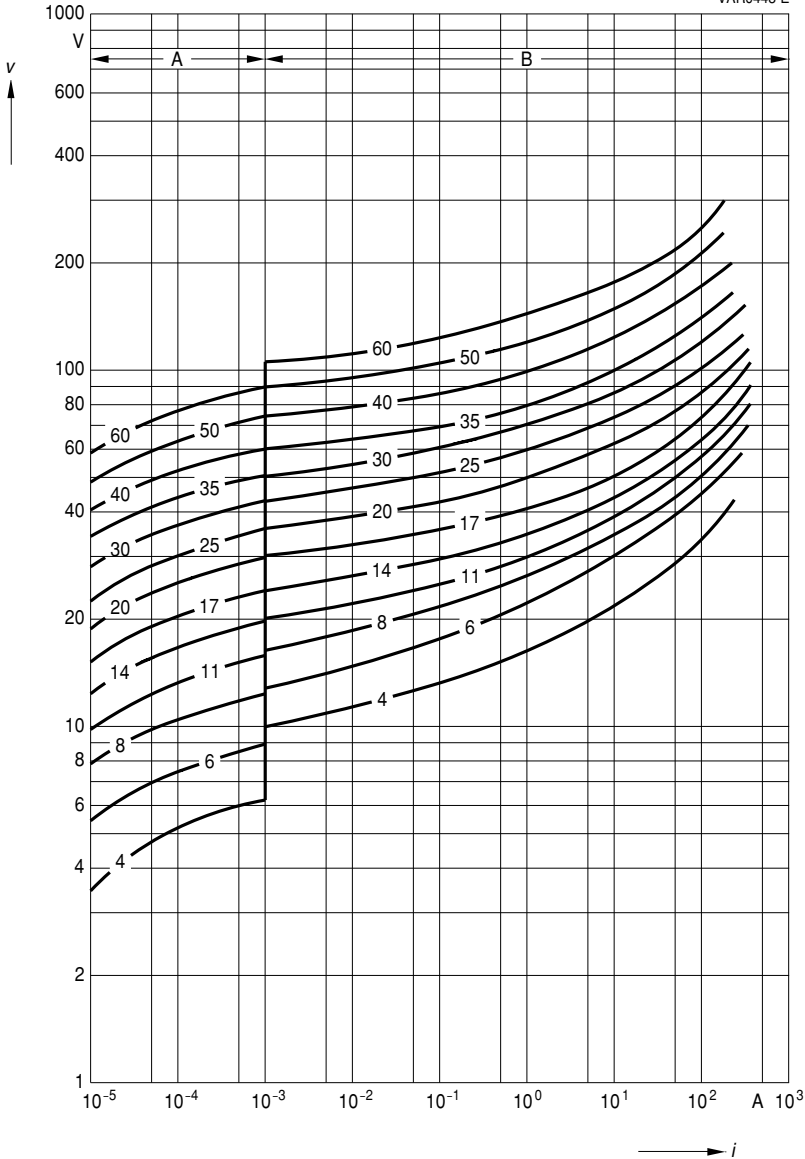
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0448-E



SIOV-CT/CN1210M4G ... K60G

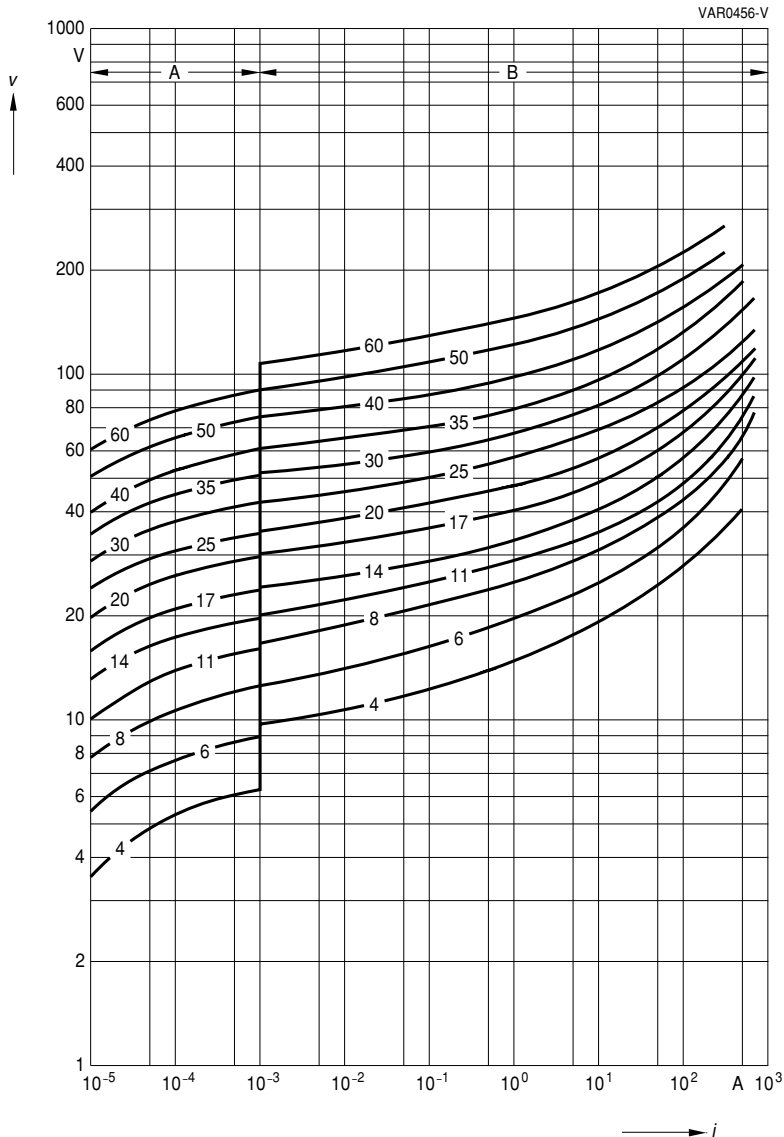
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN1812M4G ... K60G
SHCV-SR1K20M ... X/Z $\triangleq$ 1812

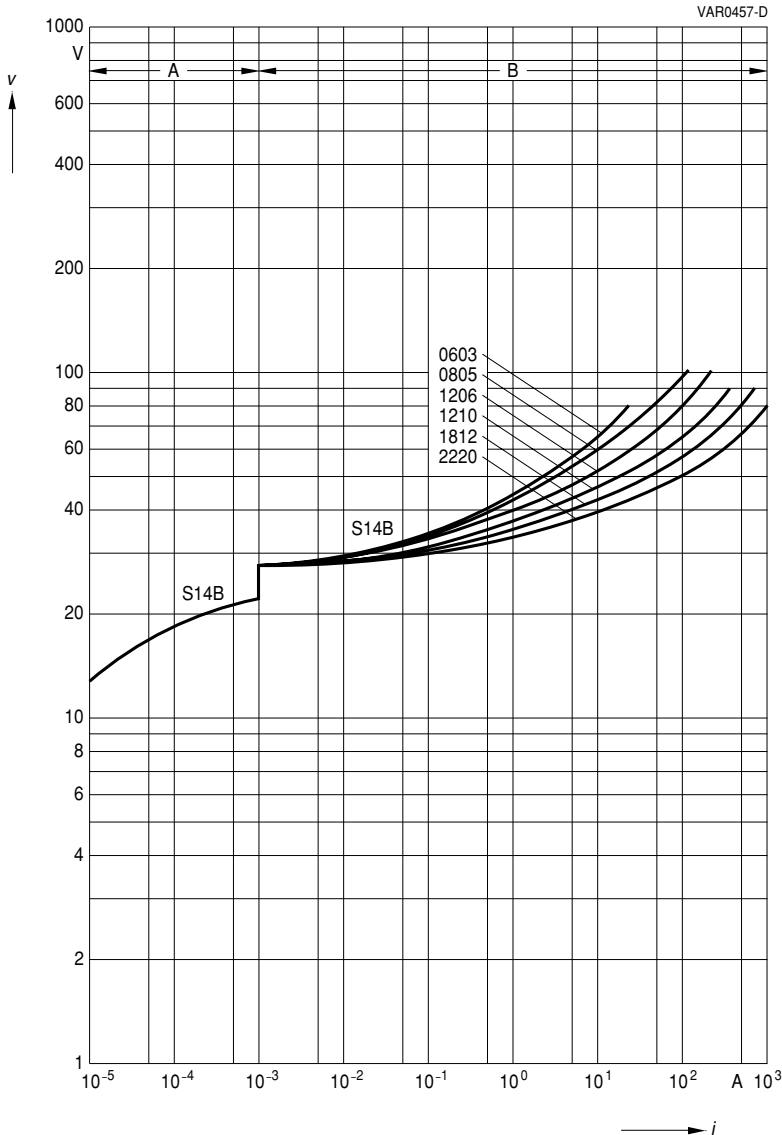
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN0603S14BAUTOG ... 2220S14BAUTOG
SHCV-SR1S14B ... X/Z $\hat{=}$ 1812

SIOV-CN2220S14BAUTOE2G2
SHCV-SR2S14B ... X/Z $\hat{=}$ 2220

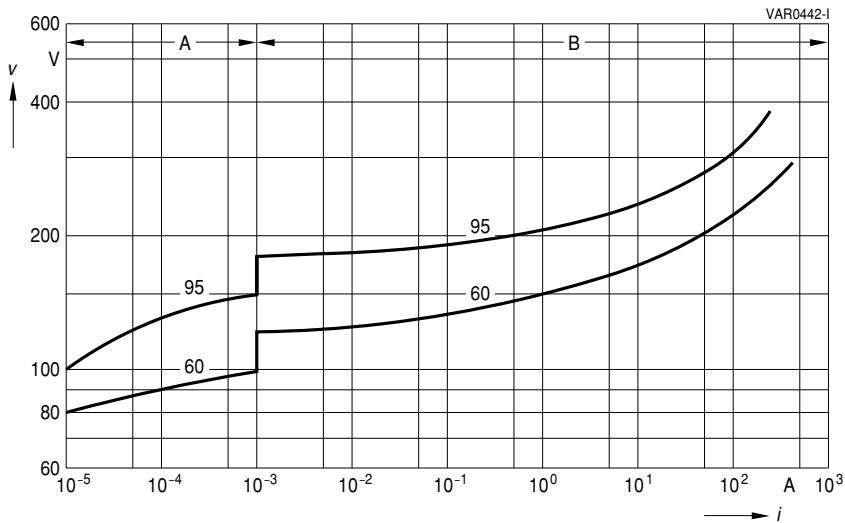
SIOV Metal Oxide Varistors

V/I Characteristics

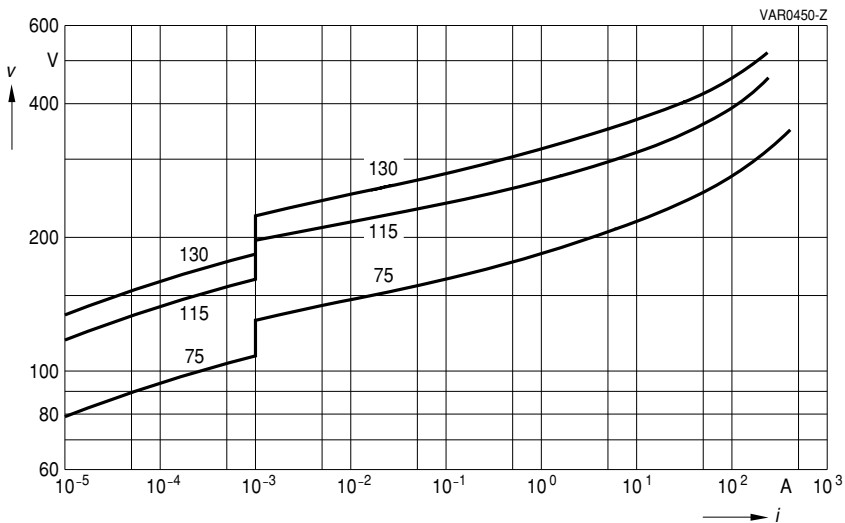
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN1812S60AG2 ... S95AG2



SIOV-CT/CN1812K75G2 ... K130G2

SIOV Metal Oxide Varistors

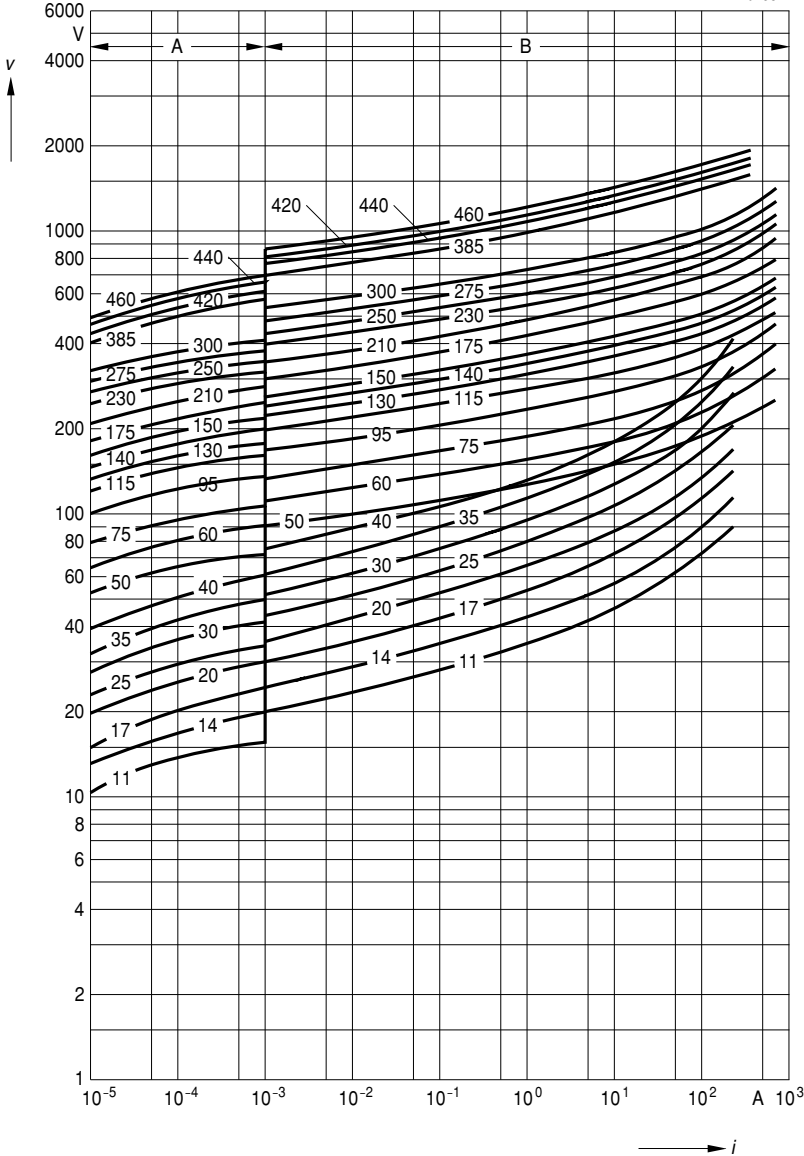
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0458-L



SIOV-S05 ... (E2)

SIOV-CU3225 ... (AUTO)G2

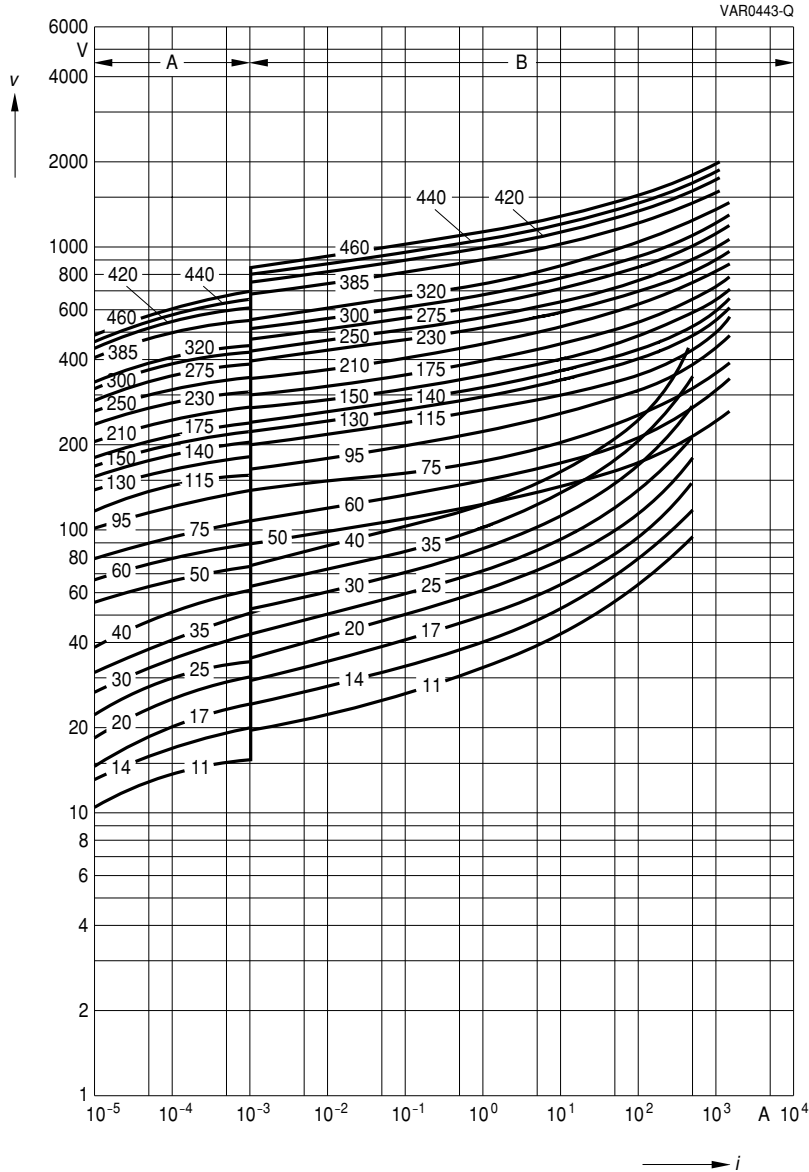
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-S07 ... (D1)(E2)

SIOV-CU4032 ... (AUTO)G2

SIOV Metal Oxide Varistors

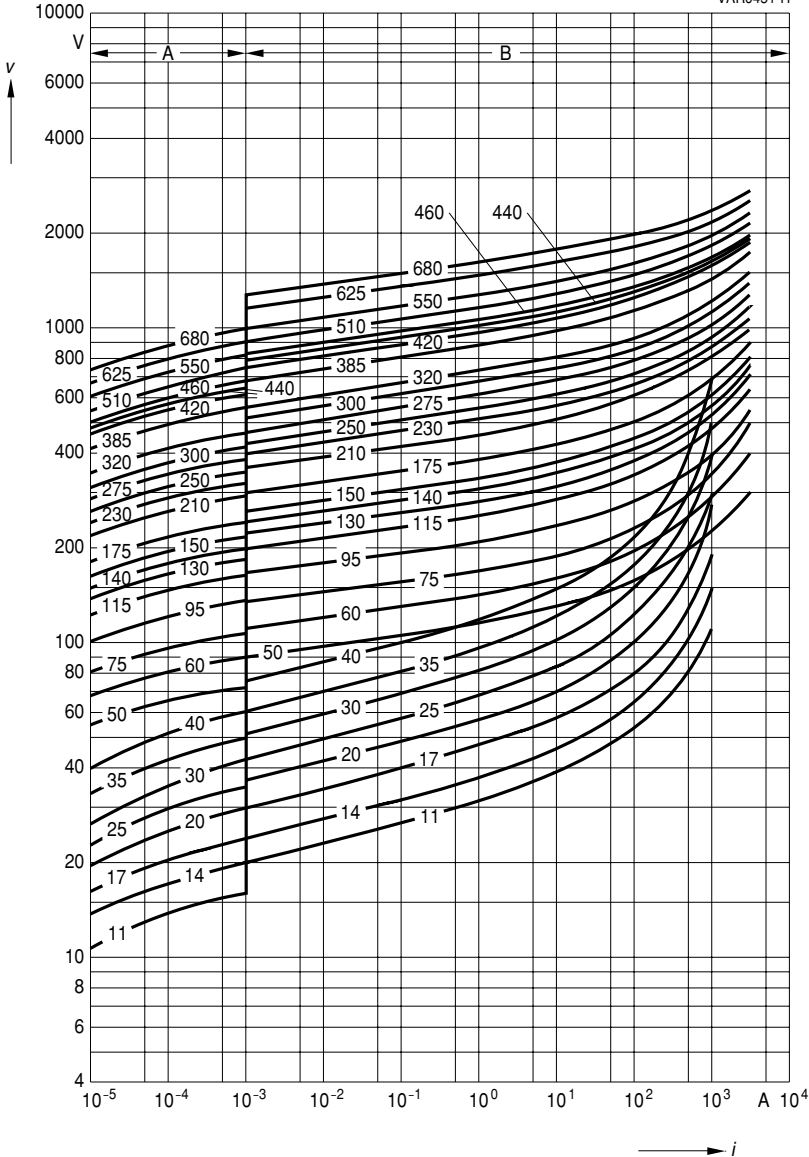
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0451-H



SIOV-S10 ... (AUTO)(D1)(E2)

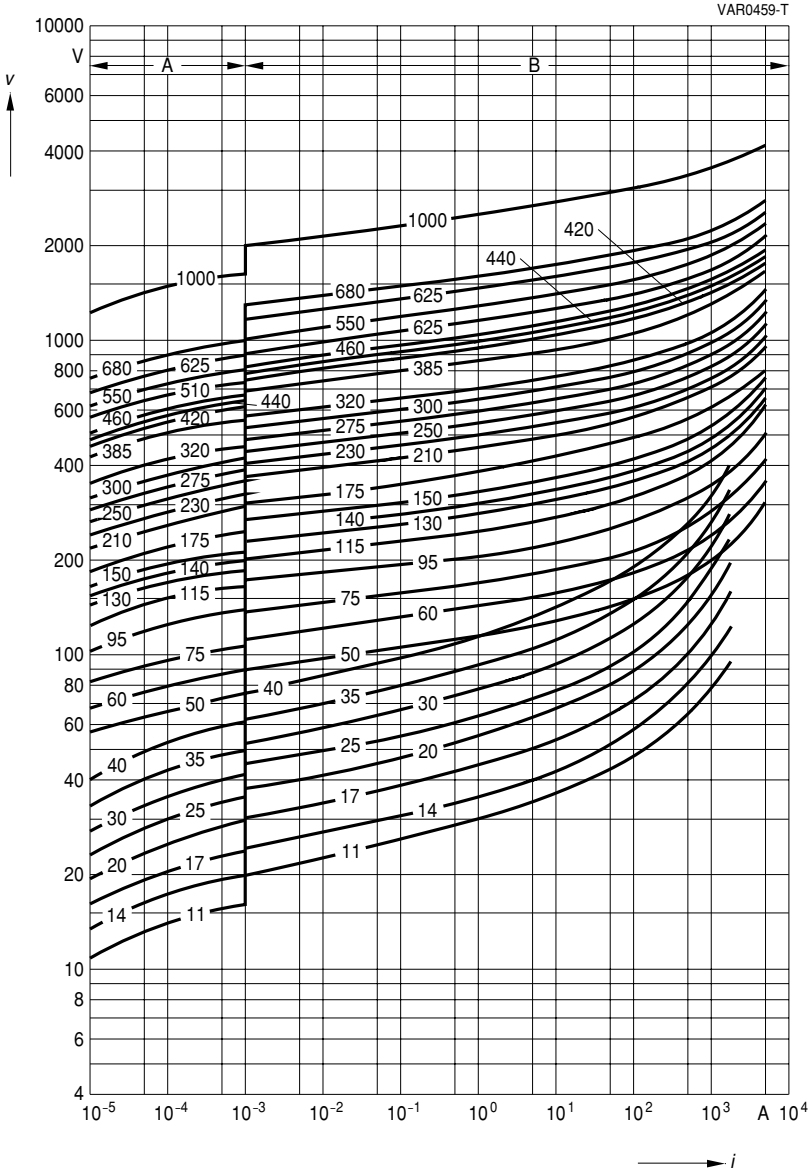
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-S14 ... (AUTO)(D1)(E2)

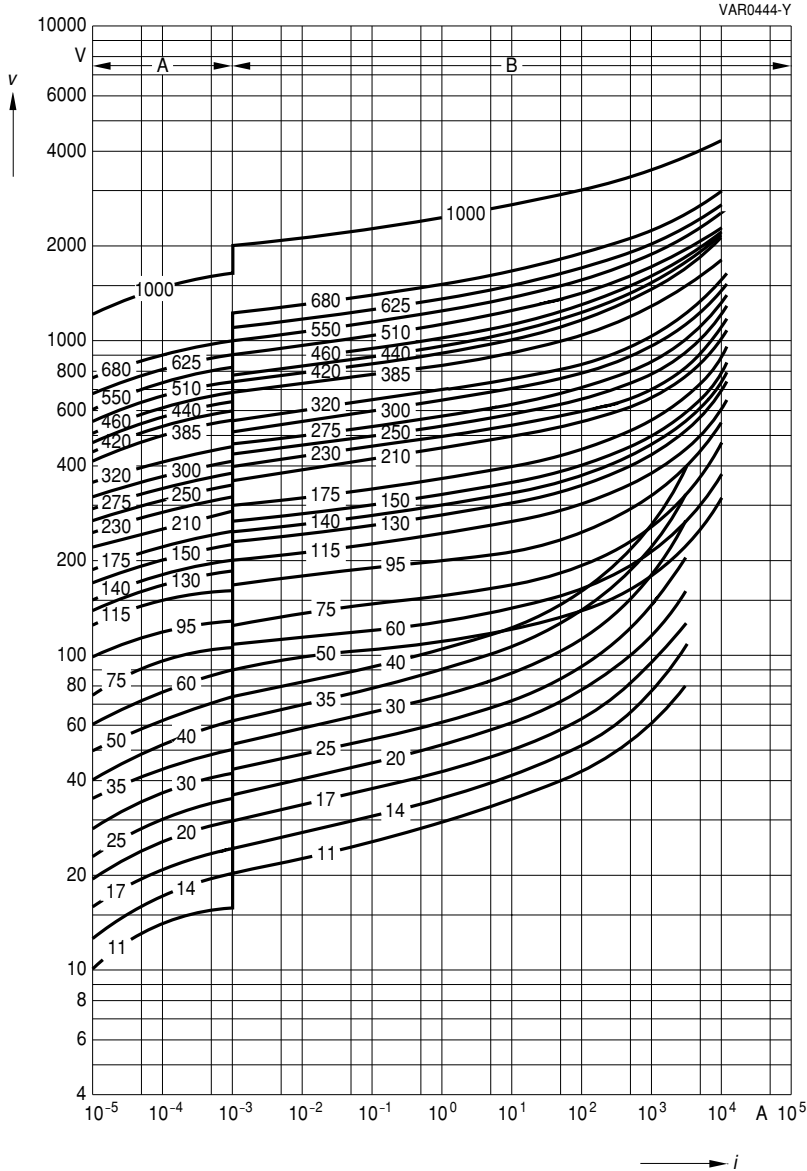
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-S20 ... (AUTO)(E2)(E3)

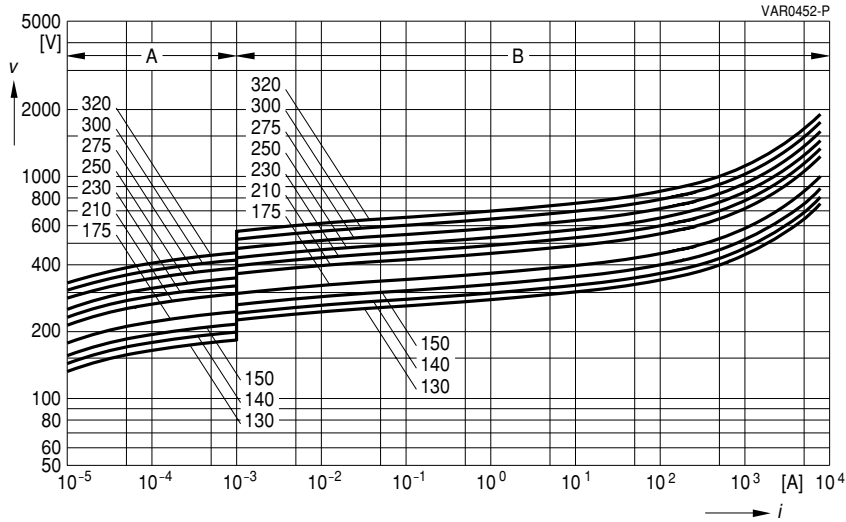
SIOV Metal Oxide Varistors

V/I Characteristics

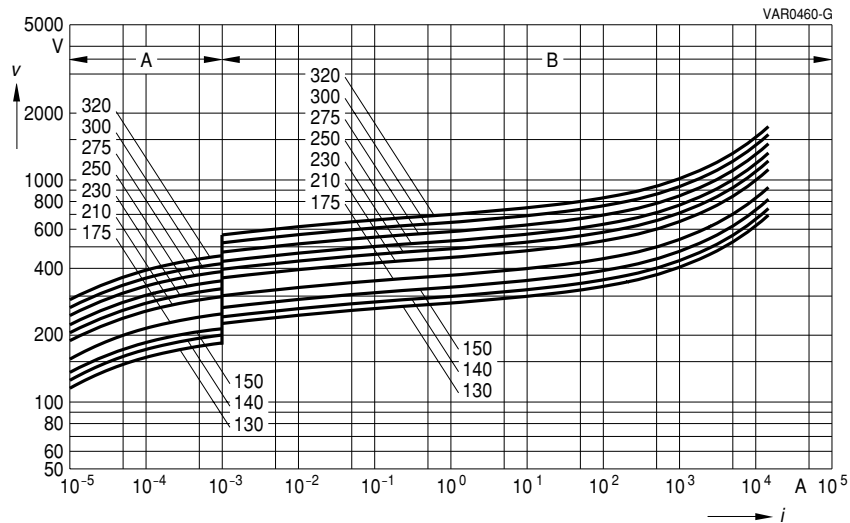
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-Q14



SIOV-Q20

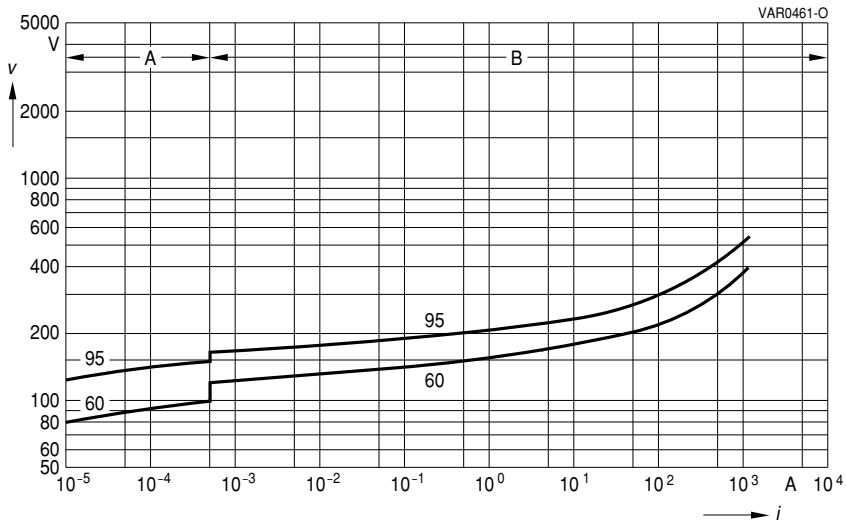
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-S07S60A ... S95AG2

SIOV-CU4032S60A ... S95AG2

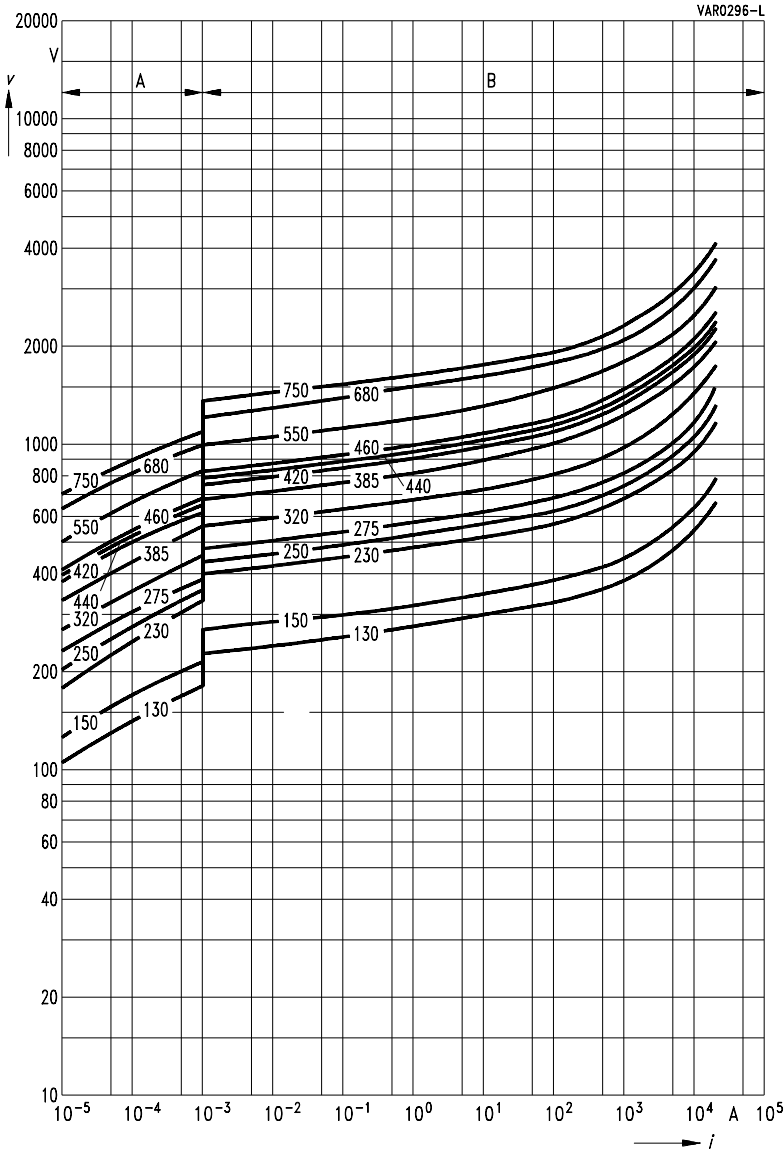
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-B32K130 ... K750

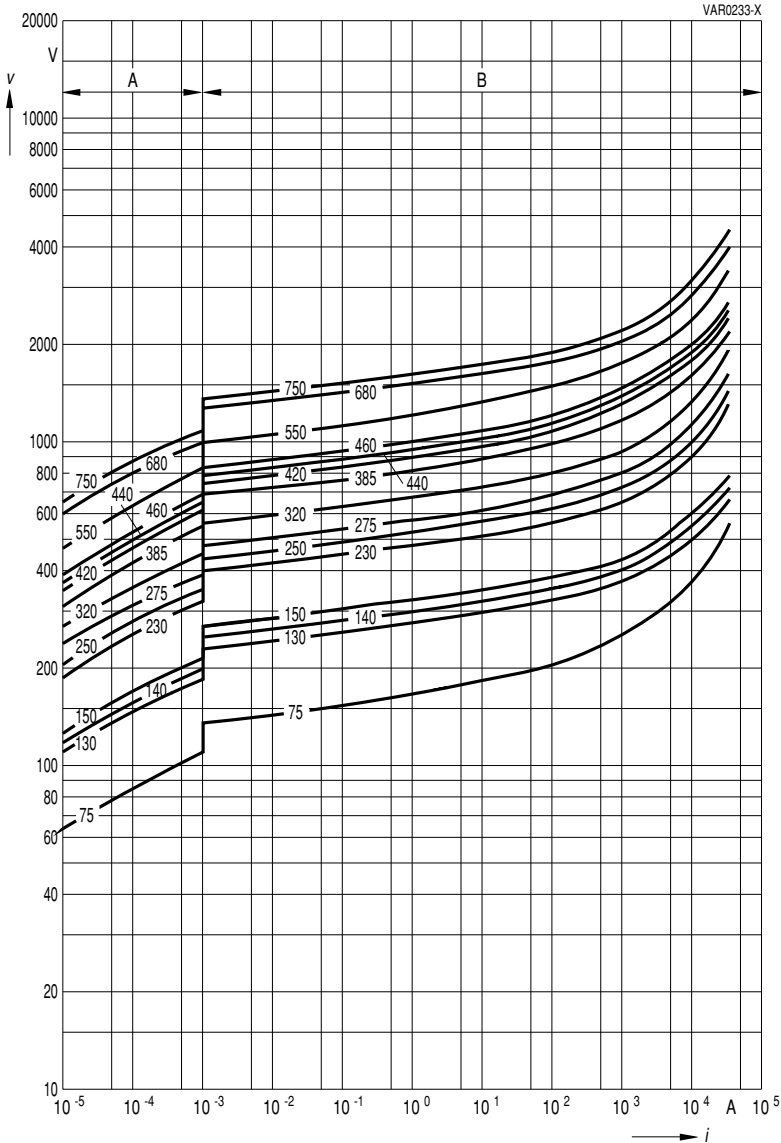
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-B40K75 ... K750

SIOV-LS40K130QP ... K750QP(K2)

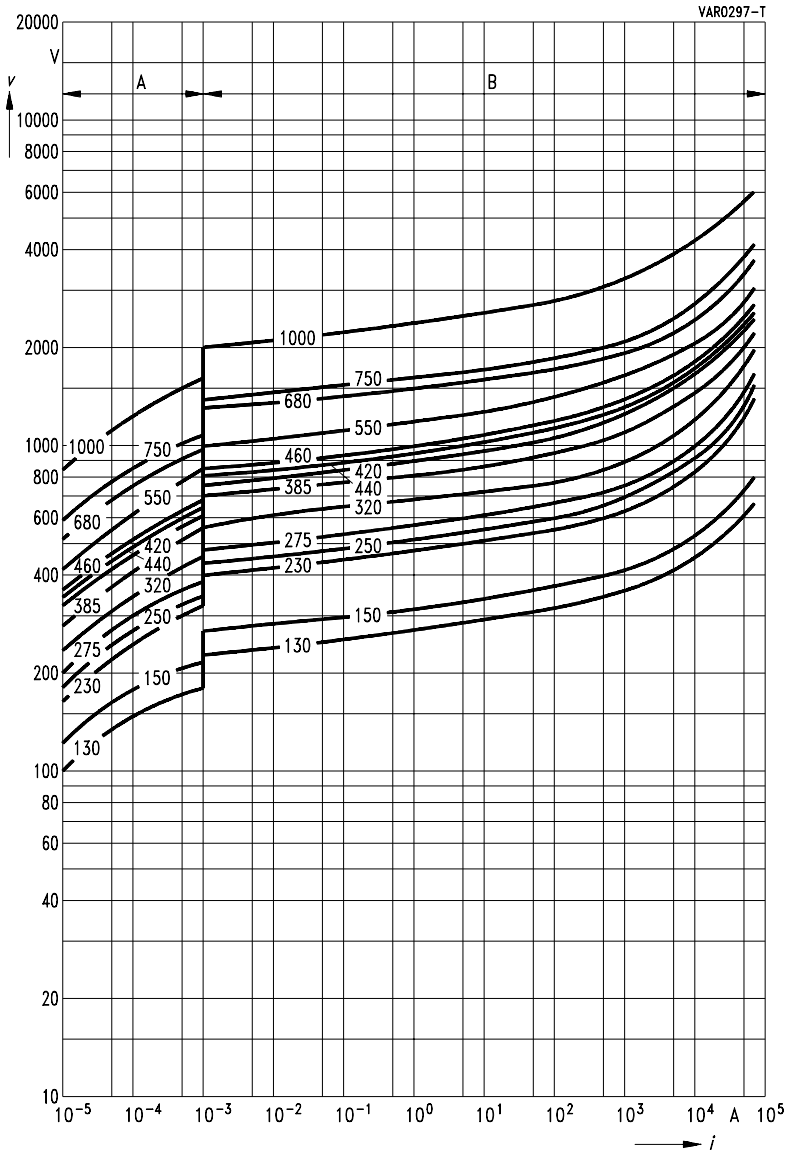
SIOV Metal Oxide Varistors

V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-B60K130 ... K1000

SIOV Metal Oxide Varistors

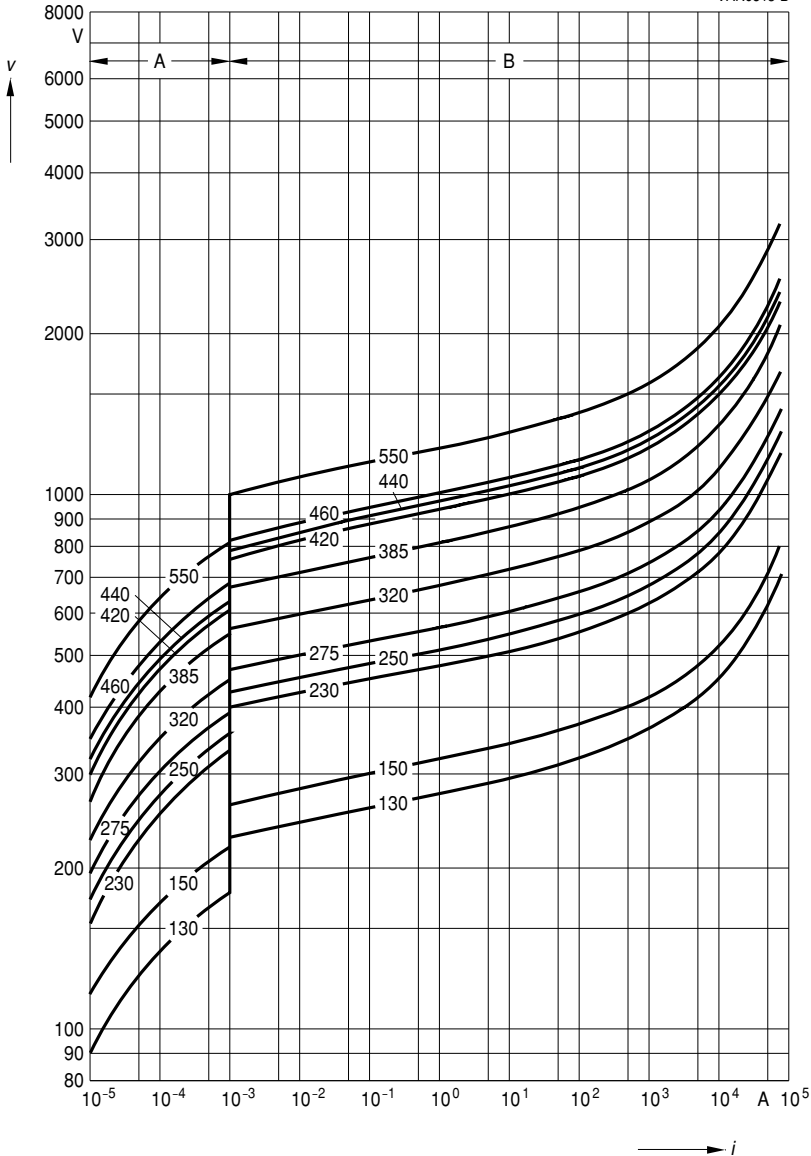
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0513-B



SIOV-LS50K130PK2 ... K550PK2

SIOV-LS50K130P ... K550P

SIOV Metal Oxide Varistors

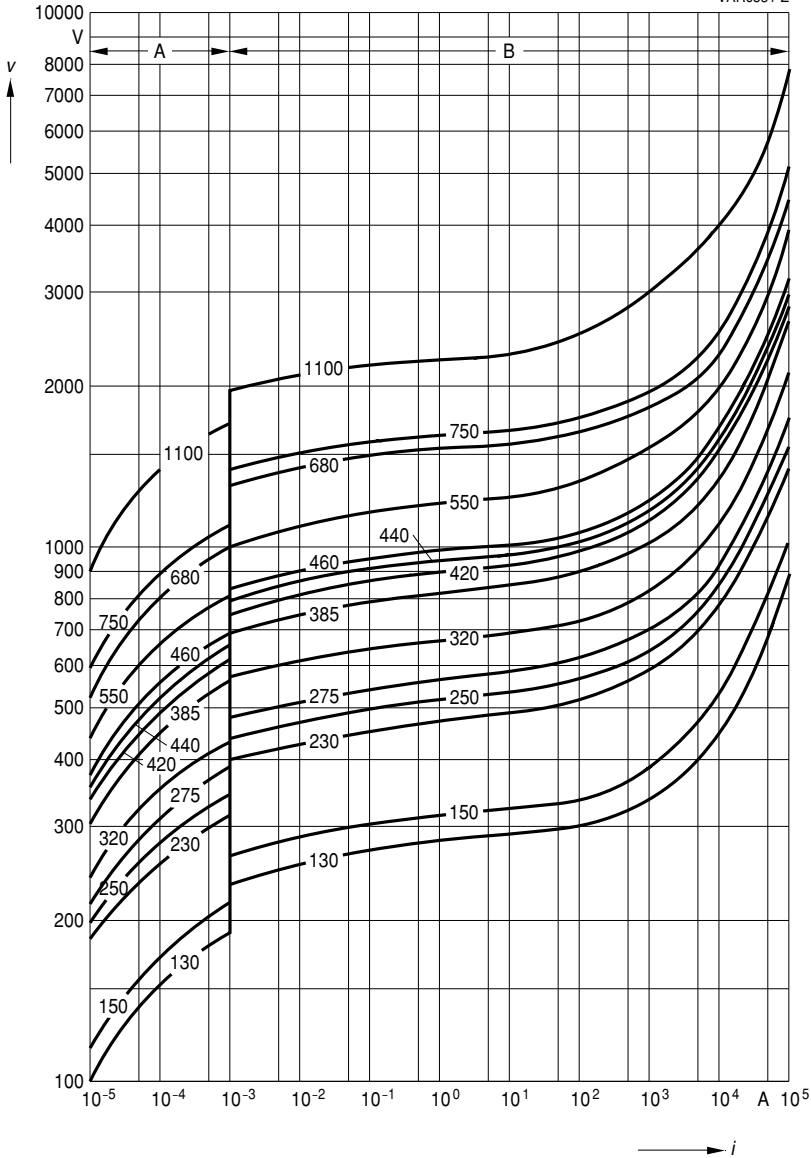
V/I Characteristics

$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances

VAR0531-Z



SIOV-B80K130 ... K1100

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