Disk varistors

StandarD series, dimensions

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
- PSpice models

Approvals

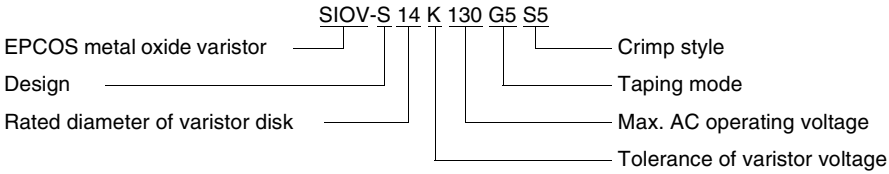
- UL
- CSA (all types ≥ K115)
- SEV
- VDE
- CECC

Taping

- For ordering information see page 206 ff

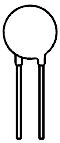
Type designation

Detailed description of coding system on page 39



General technical data

Climatic category LCT UCT Damp heat, steady state (93 % r.h., 40 °C)	40/85/56 – 40 °C + 85 °C 56 days	in accordance with IEC 60068-1 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	≥ 1,0 GΩ	in accordance with CECC 42 000
Response time	< 25 ns	

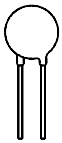


Maximum ratings (T_A = 85 °C)

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
S05K11	B72205-S110-K101	11	14	100	0,3	0,01
S07K11	B72207-S110-K101	11	14	250	0,8	0,02
S10K11	B72210-S110-K101	11	14	500	1,7	0,05
S14K11	B72214-S110-K101	11	14	1000	3,2	0,10
S20K11	B72220-S110-K101	11	14	2000	10,0	0,20
S05K14	B72205-S140-K101	14	18	100	0,4	0,01
S07K14	B72207-S140-K101	14	18[1)]	250	0,9	0,02
S10K14	B72210-S140-K101	14	18[1)]	500	2,0	0,05
S14K14	B72214-S140-K101	14	18[1)]	1000	4,0	0,10
S20K14	B72220-S140-K101	14	18[1)]	2000	12,0	0,20
S05K17	B72205-S170-K101	17	22	100	0,5	0,01
S07K17	B72207-S170-K101	17	22	250	1,1	0,02
S10K17	B72210-S170-K101	17	22	500	2,5	0,05
S14K17	B72214-S170-K101	17	22	1000	5,0	0,10
S20K17	B72220-S170-K101	17	22	2000	14,0	0,20
S05K20	B72205-S200-K101	20	26	100	0,6	0,01
S07K20	B72207-S200-K101	20	26	250	1,3	0,02
S10K20	B72210-S200-K101	20	26	500	3,1	0,05
S14K20	B72214-S200-K101	20	26	1000	6,0	0,10
S20K20	B72220-S200-K101	20	26	2000	18,0	0,20
S05K25	B72205-S250-K101	25	31	100	0,7	0,01
S07K25	B72207-S250-K101	25	31	250	1,6	0,02
S10K25	B72210-S250-K101	25	31	500	3,7	0,05
S14K25	B72214-S250-K101	25	31	1000	7,0	0,10
S20K25	B72220-S250-K101	25	31	2000	22,0	0,20
S05K30	B72205-S300-K101	30	38	100	0,9	0,01
S07K30	B72207-S300-K101	30	38	250	2,0	0,02
S10K30	B72210-S300-K101	30	38	500	4,4	0,05
S14K30	B72214-S300-K101	30	38	1000	9,0	0,10
S20K30	B72220-S300-K101	30	38	2000	26,0	0,20

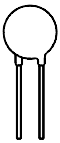
Note: New ordering codes implemented (refer to chapter Varistor Type Cross-Reference List)

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



Characteristics (T_A = 25 °C)

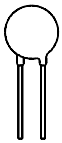
Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	Max. clamping voltage v V	Max. clamping voltage i A	C_{typ} (1 kHz) pF	Derating curve Page	V/I characteristic Page
S05K11	18	± 10	36	1,0	1750	246	278
S07K11	18	± 10	36	2,5	2750	246	279
S10K11	18	± 10	36	5,0	6250	248	280
S14K11	18	± 10	36	10,0	12100	249	281
S20K11	18	± 10	36	20,0	23000	251	282
S05K14	22	± 10	43	1,0	1450	246	278
S07K14	22	± 10	43	2,5	2300	246	279
S10K14	22	± 10	43	5,0	5200	248	280
S14K14	22	± 10	43	10,0	9950	249	281
S20K14	22	± 10	43	20,0	19000	251	282
S05K17	27	± 10	53	1,0	1200	246	278
S07K17	27	± 10	53	2,5	1900	246	279
S10K17	27	± 10	53	5,0	4350	248	280
S14K17	27	± 10	53	10,0	8200	249	281
S20K17	27	± 10	53	20,0	15600	251	282
S05K20	33	± 10	65	1,0	980	246	278
S07K20	33	± 10	65	2,5	1600	246	279
S10K20	33	± 10	65	5,0	3650	248	280
S14K20	33	± 10	65	10,0	6800	249	281
S20K20	33	± 10	65	20,0	13000	251	282
S05K25	39	± 10	77	1,0	850	246	278
S07K25	39	± 10	77	2,5	1400	246	279
S10K25	39	± 10	77	5,0	3200	248	280
S14K25	39	± 10	77	10,0	5850	249	281
S20K25	39	± 10	77	20,0	11100	251	282
S05K30	47	± 10	93	1,0	720	246	278
S07K30	47	± 10	93	2,5	1200	246	279
S10K30	47	± 10	93	5,0	2750	248	280
S14K30	47	± 10	93	10,0	4950	249	281
S20K30	47	± 10	93	20,0	9350	251	282



Maximum ratings (T_A = 85 °C)

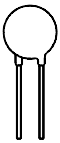
Type (untaped) SIOV-	Ordering code **NEW**	V_{RMS} V	V_{DC} V	i_{max} 8/20 µs A	W_{max} (2 ms) J	P_{max} W
S05K35	B72205-S350-K101	35	45	100	1,1	0,01
S07K35	B72207-S350-K101	35	45	250	2,5	0,02
S10K35	B72210-S350-K101	35	45	500	5,4	0,05
S14K35	B72214-S350-K101	35	45	1000	10,0	0,10
S20K35	B72220-S350-K101	35	45	2000	33,0	0,20
S05K40	B72205-S400-K101	40	56	100	1,3	0,01
S07K40	B72207-S400-K101	40	56	250	3,0	0,02
S10K40	B72210-S400-K101	40	56	500	6,4	0,05
S14K40	B72214-S400-K101	40	56	1000	13,0	0,10
S20K40	B72220-S400-K101	40	56	2000	37,0	0,20
S05K50	B72205-S500-K101	50	65	400	1,8	0,10
S07K50	B72207-S500-K101	50	65	1200	4,2	0,25
S10K50	B72210-S500-K101	50	65	2500	8,4	0,40
S14K50	B72214-S500-K101	50	65	4500	15,0	0,60
S20K50	B72220-S500-K101	50	65	6500	27,0	1,00
S05K60	B72205-S600-K101	60	85	400	2,2	0,10
S07K60	B72207-S600-K101	60	85	1200	4,8	0,25
S10K60	B72210-S600-K101	60	85	2500	10,0	0,40
S14K60	B72214-S600-K101	60	85	4500	17,0	0,60
S20K60	B72220-S600-K101	60	85	6500	33,0	1,00
S05K75	B72205-S750-K101	75	100	400	2,5	0,10
S07K75	B72207-S750-K101	75	100	1200	5,9	0,25
S10K75	B72210-S750-K101	75	100	2500	12,0	0,40
S14K75	B72214-S750-K101	75	100	4500	20,0	0,60
S20K75	B72220-S750-K101	75	100	6500	40,0	1,00
S05K95	B72205-S950-K101	95	125	400	3,4	0,10
S07K95	B72207-S950-K101	95	125	1200	7,6	0,25
S10K95	B72210-S950-K101	95	125	2500	15,0	0,40
S14K95	B72214-S950-K101	95	125	4500	25,0	0,60
S20K95	B72220-S950-K101	95	125	6500	50,0	1,00

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



Characteristics (T_A = 25 °C)

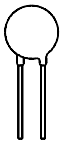
Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	Max. clamping voltage v V	Max. clamping voltage i A	C_{typ} (1 kHz) pF	Derating curve Page	*V/I* characteristic Page
S05K35	56	± 10	110	1,0	620	246	278
S07K35	56	± 10	110	2,5	1050	246	279
S10K35	56	± 10	110	5,0	2400	248	280
S14K35	56	± 10	110	10,0	4200	249	281
S20K35	56	± 10	110	20,0	8000	251	282
S05K40	68	± 10	135	1,0	520	246	278
S07K40	68	± 10	135	2,5	900	246	279
S10K40	68	± 10	135	5,0	2100	248	280
S14K40	68	± 10	135	10,0	3550	249	281
S20K40	68	± 10	135	20,0	6750	251	282
S05K50	82	± 10	135	5,0	300	247	278
S07K50	82	± 10	135	10,0	530	247	279
S10K50	82	± 10	135	25,0	950	248	280
S14K50	82	± 10	135	50,0	1800	250	281
S20K50	82	± 10	135	100,0	3800	251	282
S05K60	100	± 10	165	5,0	250	247	278
S07K60	100	± 10	165	10,0	480	247	279
S10K60	100	± 10	165	25,0	870	248	280
S14K60	100	± 10	165	50,0	1650	250	281
S20K60	100	± 10	165	100,0	3600	251	282
S05K75	120	± 10	200	5,0	210	247	278
S07K75	120	± 10	200	10,0	430	247	279
S10K75	120	± 10	200	25,0	720	248	280
S14K75	120	± 10	200	50,0	1370	250	281
S20K75	120	± 10	200	100,0	2900	251	282
S05K95	150	± 10	250	5,0	135	247	278
S07K95	150	± 10	250	10,0	260	247	279
S10K95	150	± 10	250	25,0	530	248	280
S14K95	150	± 10	250	50,0	870	250	281
S20K95	150	± 10	250	100,0	1830	251	282



Maximum ratings (T_A = 85 °C)

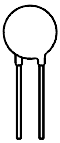
Type (untaped) SIOV-	Ordering code **NEW**	V_{RMS} V	V_{DC} V	i_{max} 8/20 µs A	W_{max} (2 ms) J	P_{max} W
S05K115	B72205-S111-K101	115	150	400	3,6	0,10
S07K115	B72207-S111-K101	115	150	1200	8,4	0,25
S10K115	B72210-S111-K101	115	150	2500	18,0	0,40
S14K115	B72214-S111-K101	115	150	4500	30,0	0,60
S20K115	B72220-S111-K101	115	150	6500	60,0	1,00
S05K130	B72205-S131-K101	130	170	400	4,2	0,10
S07K130	B72207-S131-K101	130	170	1200	9,5	0,25
S10K130	B72210-S131-K101	130	170	2500	19,0	0,40
S14K130	B72214-S131-K101	130	170	4500	34,0	0,60
S20K130	B72220-S131-K101	130	170	8000	74,0	1,00
S05K140	B72205-S141-K101	140	180	400	4,5	0,10
S07K140	B72207-S141-K101	140	180	1200	10,0	0,25
S10K140	B72210-S141-K101	140	180	2500	22,0	0,40
S14K140	B72214-S141-K101	140	180	4500	36,0	0,60
S20K140	B72220-S141-K101	140	180	8000	78,0	1,00
S05K150	B72205-S151-K101	150	200	400	4,9	0,10
S07K150	B72207-S151-K101	150	200	1200	11,0	0,25
S10K150	B72210-S151-K101	150	200	2500	24,0	0,40
S14K150	B72214-S151-K101	150	200	4500	40,0	0,60
S20K150	B72220-S151-K101	150	200	8000	85,0	1,00
S05K175	B72205-S171-K101	175	225	400	5,6	0,10
S07K175	B72207-S171-K101	175	225	1200	13,0	0,25
S10K175	B72210-S171-K101	175	225	2500	28,0	0,40
S14K175	B72214-S171-K101	175	225	4500	46,0	0,60
S20K175	B72220-S171-K101	175	225	8000	98,0	1,00
S05K230	B72205-S231-K101	230	300	400	7,2	0,10
S07K230	B72207-S231-K101	230	300	1200	17,0	0,25
S10K230	B72210-S231-K101	230	300	2500	36,0	0,40
S14K230	B72214-S231-K101	230	300	4500	60,0	0,60
S20K230	B72220-S231-K101	230	300	8000	130,0	1,00
S05K250	B72205-S251-K101	250	320	400	8,2	0,10
S07K250	B72207-S251-K101	250	320	1200	19,0	0,25
S10K250	B72210-S251-K101	250	320	2500	38,0	0,40
S14K250	B72214-S251-K101	250	320	4500	65,0	0,60
S20K250	B72220-S251-K101	250	320	8000	140,0	1,00

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



Characteristics (T_A = 25 °C)

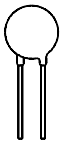
Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	Max. clamping voltage v V	Max. clamping voltage i A	C_{typ} (1 kHz) pF	Derating curve Page	*V/I* characteristic Page
S05K115	180	± 10	300	5,0	110	247	278
S07K115	180	± 10	300	10,0	220	247	279
S10K115	180	± 10	300	25,0	445	248	280
S14K115	180	± 10	300	50,0	730	250	281
S20K115	180	± 10	300	100,0	1520	251	282
S05K130	205	± 10	340	5,0	100	247	278
S07K130	205	± 10	340	10,0	200	247	279
S10K130	205	± 10	340	25,0	400	248	280
S14K130	205	± 10	340	50,0	650	250	281
S20K130	205	± 10	340	100,0	1340	252	282
S05K140	220	± 10	360	5,0	95	247	278
S07K140	220	± 10	360	10,0	180	247	279
S10K140	220	± 10	360	25,0	370	248	280
S14K140	220	± 10	360	50,0	610	250	281
S20K140	220	± 10	360	100,0	1240	252	282
S05K150	240	± 10	395	5,0	90	247	278
S07K150	240	± 10	395	10,0	170	247	279
S10K150	240	± 10	395	25,0	350	248	280
S14K150	240	± 10	395	50,0	570	250	281
S20K150	240	± 10	395	100,0	1160	252	282
S05K175	270	± 10	455	5,0	75	247	278
S07K175	270	± 10	455	10,0	150	247	279
S10K175	270	± 10	455	25,0	300	248	280
S14K175	270	± 10	455	50,0	490	250	281
S20K175	270	± 10	455	100,0	1000	252	282
S05K230	360	± 10	595	5,0	60	247	278
S07K230	360	± 10	595	10,0	115	247	279
S10K230	360	± 10	595	25,0	230	248	280
S14K230	360	± 10	595	50,0	380	250	281
S20K230	360	± 10	595	100,0	760	252	282
S05K250	390	± 10	650	5,0	55	247	278
S07K250	390	± 10	650	10,0	105	247	279
S10K250	390	± 10	650	25,0	215	248	280
S14K250	390	± 10	650	50,0	350	250	281
S20K250	390	± 10	650	100,0	700	252	282



Maximum ratings (T_A = 85 °C)

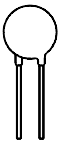
Type (untaped) SIOV-	Ordering code **NEW**	V_{RMS} V	V_{DC} V	i_{max} 8/20 µs A	W_{max} (2 ms) J	P_{max} W
S05K275	B72205-S271-K101	275	350	400	8,6	0,10
S07K275	B72207-S271-K101	275	350	1200	21,0	0,25
S10K275	B72210-S271-K101	275	350	2500	43,0	0,40
S14K275	B72214-S271-K101	275	350	4500	71,0	0,60
S20K275	B72220-S271-K101	275	350	8000	151,0	1,00
S05K300	B72205-S301-K101	300	385	400	9,6	0,10
S07K300	B72207-S301-K101	300	385	1200	23,0	0,25
S10K300	B72210-S301-K101	300	385	2500	47,0	0,40
S14K300	B72214-S301-K101	300	385	4500	76,0	0,60
S20K300	B72220-S301-K101	300	385	8000	173,0	1,00
S10K320	B72210-S321-K101	320	420	2500	50,0	0,40
S14K320	B72214-S321-K101	320	420	4500	84,0	0,60
S20K320	B72220-S321-K101	320	420	8000	184,0	1,00
S05K385	B72205-S381-K101	385	505	400	13,0	0,10
S07K385	B72207-S381-K101	385	505	1200	28,0	0,25
S10K385	B72210-S381-K101	385	505	2500	40,0	0,40
S14K385	B72214-S381-K101	385	505	4500	80,0	0,60
S20K385	B72220-S381-K101	385	505	8000	150,0	1,00
S05K420	B72205-S421-K101	420	560	400	14,0	0,10
S07K420	B72207-S421-K101	420	560	1200	32,0	0,25
S10K420	B72210-S421-K101	420	560	2500	45,0	0,40
S14K420	B72214-S421-K101	420	560	4500	90,0	0,60
S20K420	B72220-S421-K101	420	560	8000	175,0	1,00
S05K440	B72205-S441-K101	440	585	400	16,0	0,10
S07K440	B72207-S441-K101	440	585	1200	34,0	0,25
S10K440	B72210-S441-K101	440	585	2500	47,0	0,40
S14K440	B72214-S441-K101	440	585	4500	95,0	0,60
S20K440	B72220-S441-K101	440	585	8000	185,0	1,00
S05K460	B72205-S461-K101	460	615	400	18,0	0,10
S07K460	B72207-S461-K101	460	615	1200	36,0	0,25
S10K460	B72210-S461-K101	460	615	2500	50,0	0,40
S14K460	B72214-S461-K101	460	615	4500	100,0	0,60
S20K460	B72220-S461-K101	460	615	8000	195,0	1,00

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



Characteristics (T_A = 25 °C)

Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	Max. clamping voltage v V	Max. clamping voltage i A	C_{typ} (1 kHz) pF	Derating curve Page	*V/I* characteristic Page
S05K275	430	± 10	710	5,0	50	247	278
S07K275	430	± 10	710	10,0	95	247	279
S10K275	430	± 10	710	25,0	195	248	280
S14K275	430	± 10	710	50,0	320	250	281
S20K275	430	± 10	710	100,0	630	252	282
S05K300	470	± 10	775	5,0	45	247	278
S07K300	470	± 10	775	10,0	90	247	279
S10K300	470	± 10	775	25,0	180	248	280
S14K300	470	± 10	775	50,0	300	250	281
S20K300	470	± 10	775	100,0	580	252	282
S10K320	510	± 10	845	25,0	170	248	280
S14K320	510	± 10	845	50,0	280	250	281
S20K320	510	± 10	845	100,0	540	252	282
S05K385	620	± 10	1025	5,0	40	247	278
S07K385	620	± 10	1025	10,0	75	247	279
S10K385	620	± 10	1025	25,0	150	249	280
S14K385	620	± 10	1025	50,0	240	250	281
S20K385	620	± 10	1025	100,0	450	252	282
S05K420	680	± 10	1120	5,0	35	247	278
S07K420	680	± 10	1120	10,0	65	247	279
S10K420	680	± 10	1120	25,0	135	249	280
S14K420	680	± 10	1120	50,0	220	250	281
S20K420	680	± 10	1120	100,0	420	252	282
S05K440	715	± 10	1180	5,0	32	247	278
S07K440	715	± 10	1180	10,0	60	247	279
S10K440	715	± 10	1180	25,0	125	249	280
S14K440	715	± 10	1180	50,0	210	250	281
S20K440	715	± 10	1180	100,0	400	252	282
S05K460	750	± 10	1240	5,0	30	247	278
S07K460	750	± 10	1240	10,0	55	247	279
S10K460	750	± 10	1240	25,0	120	249	280
S14K460	750	± 10	1240	50,0	200	250	281
S20K460	750	± 10	1240	100,0	380	252	282



Maximum ratings (T_A = 85 °C)

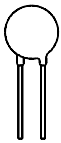
Type (untaped) SIOV-	Ordering code **NEW**	V_{RMS} V	V_{DC} V	i_{max} 8/20 µs A	W_{max} (2 ms) J	P_{max} W
S10K510	B72210-S511-K101	510	670	2500	55,0	0,40
S14K510	B72214-S511-K101	510	670	4500	110,0	0,60
S20K510	B72220-S511-K101	510	670	6500	190,0	1,00
S10K550	B72210-S551-K101	550	745	2500	60,0	0,40
S14K550	B72214-S551-K101	550	745	4500	120,0	0,60
S20K550	B72220-S551-K101	550	745	6500	210,0	1,00
S10K625	B72210-S621-K101	625	825	2500	68,0	0,40
S14K625	B72214-S621-K101	625	825	4500	130,0	0,60
S20K625	B72220-S621-K101	625	825	6500	230,0	1,00
S10K680	B72210-S681-K101	680	895	2500	72,0	0,40
S14K680	B72214-S681-K101	680	895	4500	140,0	0,60
S20K680	B72220-S681-K101	680	895	6500	250,0	1,00
S14K1000[1)]	B72214-S102-K101	1100	1465	4500	230,0	0,60
S20K1000[1)]	B72220-S102-K101	1100	1465	6500	410,0	1,00

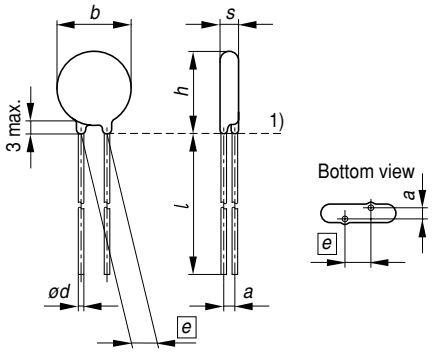
Characteristics (T_A = 25 °C)

Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	Max. clamping voltage v V	Max. clamping voltage i A	C_{typ} (1 kHz) pF	Derating curve Page	*V/I* characteristic Page
S10K510	820	± 10	1355	25,0	110	249	280
S14K510	820	± 10	1355	50,0	180	250	281
S20K510	820	± 10	1355	100,0	340	253	282
S10K550	910	± 10	1500	25,0	105	249	280
S14K550	910	± 10	1500	50,0	170	250	281
S20K550	910	± 10	1500	100,0	320	253	282
S10K625	1000	± 10	1650	25,0	90	249	280
S14K625	1000	± 10	1650	50,0	150	250	281
S20K625	1000	± 10	1650	100,0	280	253	282
S10K680	1100	± 10	1815	25,0	85	249	280
S14K680	1100	± 10	1815	50,0	140	250	281
S20K680	1100	± 10	1815	100,0	250	253	282
S14K1000[1)]	1800	± 10	2970	50,0	100	250	281
S20K1000[1)]	1800	± 10	2970	100,0	170	253	282

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

1) Operating voltage differs from type designation.





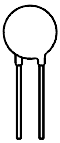
1) Seating plane according to IEC 60717

VAR0408-C

Dimensions

Type	e ± 1 mm	a ± 1 mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d ± 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

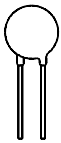
Dimensions in ( ) apply to the taped version with 5 mm lead spacing. For (*) see “Taping”, page 206 ff.



Dimensions

Type	$\boxed{e}$ ± 1 mm	a ± 1 mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d ± 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

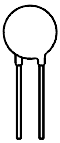
Dimensions in ( ) apply to the taped version with 5 mm lead spacing. For (*) see “Taping”, page 206 ff.



Dimensions

Type	$\boxed{e}$ ± 1 mm	a ± 1 mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d ± 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

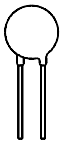
Dimensions in ( ) apply to the taped version with 5 mm lead spacing. For (*) see “Taping”, page 206 ff.



Dimensions

Type	$\boxed{e}$ ± 1 mm	a ± 1 mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d ± 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 “Taping”, page 206 ff.



Dimensions

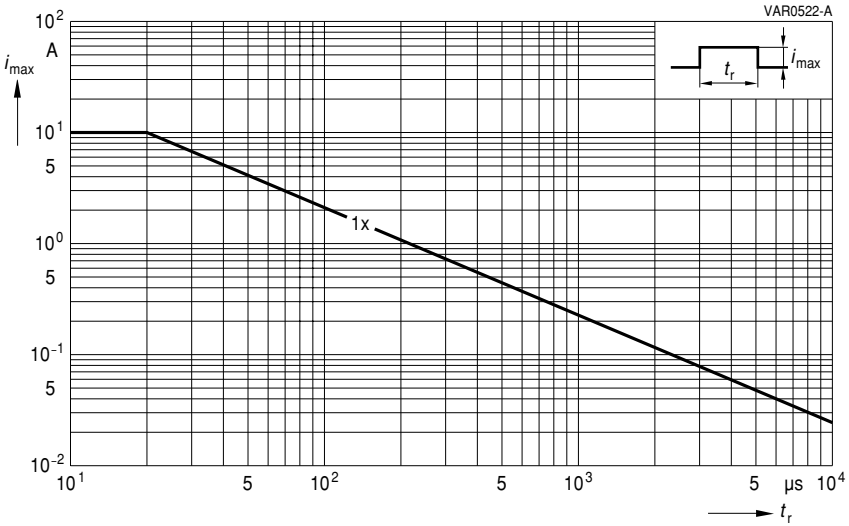
Type	$\boxed{e}$ ± 1 mm	a ± 1 mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d ± 0,05 mm
SIOV-S05K460	5,0	3,0	7,0	5,7	9,0	30,0	0,6
SIOV-S07K460	5,0	3,0	9,0	5,7	11,5	30,0	0,6
SIOV-S10K460	7,5	3,1	12,0	6,3	15,0	30,0	0,8
SIOV-S14K460	7,5	3,1	15,5	6,4	19,0	30,0	0,8
SIOV-S20K460	10,0	3,3	21,5	6,8	26,0	30,0	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

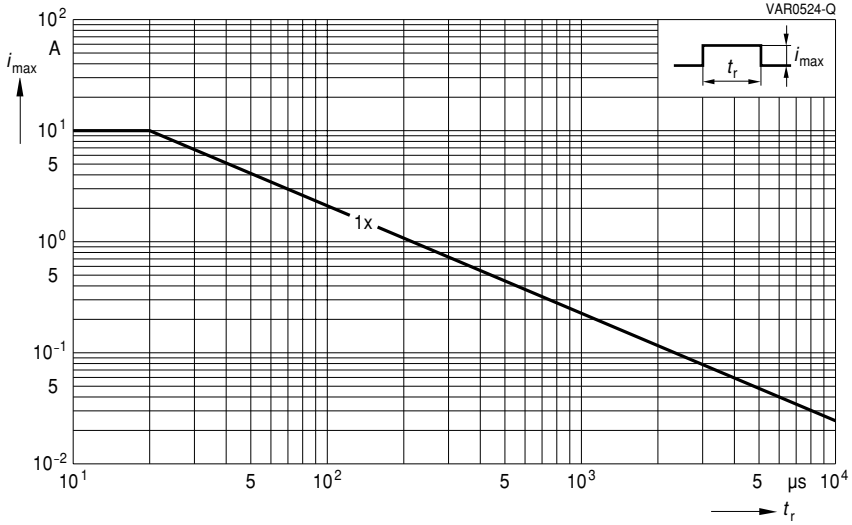
Size	approx.	
S05K11 … 460	0,3 … 0,7 g	The weight of varistors in between these voltage classes can be interpolated.
S07K11 … 460	0,4 … 1,1 g	
S10K11 … 680	1,0 … 3,0 g	
S14K11 … 1000	1,4 … 7,6 g	
S20K11 … 1000	2,7 … 15,7 g	

Maximum surge current

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



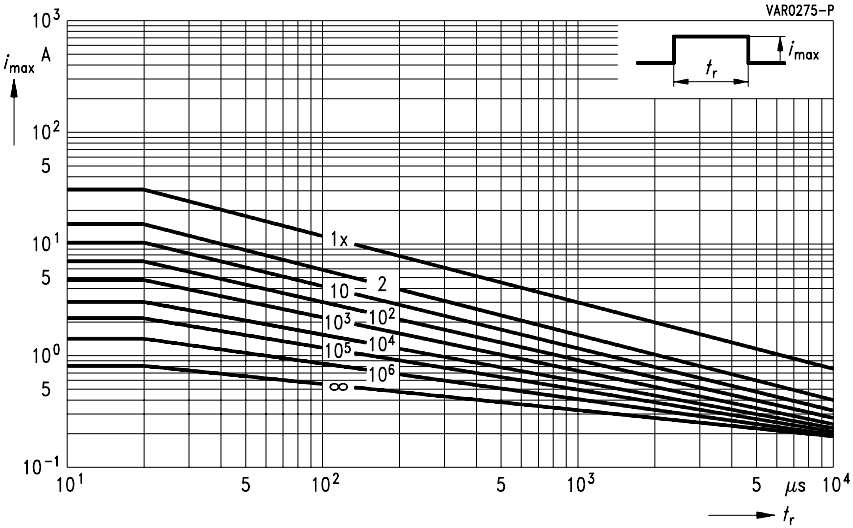
SIOV-CT/CN0402L14G(K2)
SIOV-CT/CN0603K17LCG



SIOV-CA05P4S17ALCGK2
SIOV-CA04P2S17ALCGK2

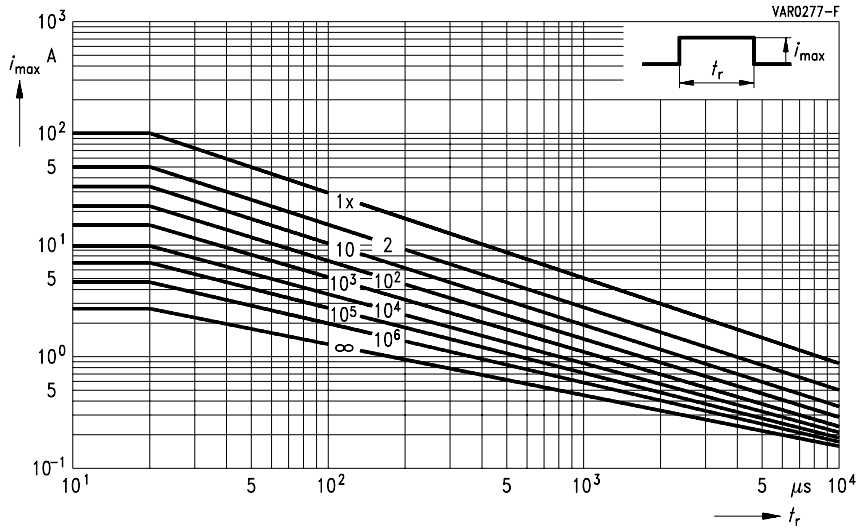
Maximum surge current

$i_{max} = f(t_r$, 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

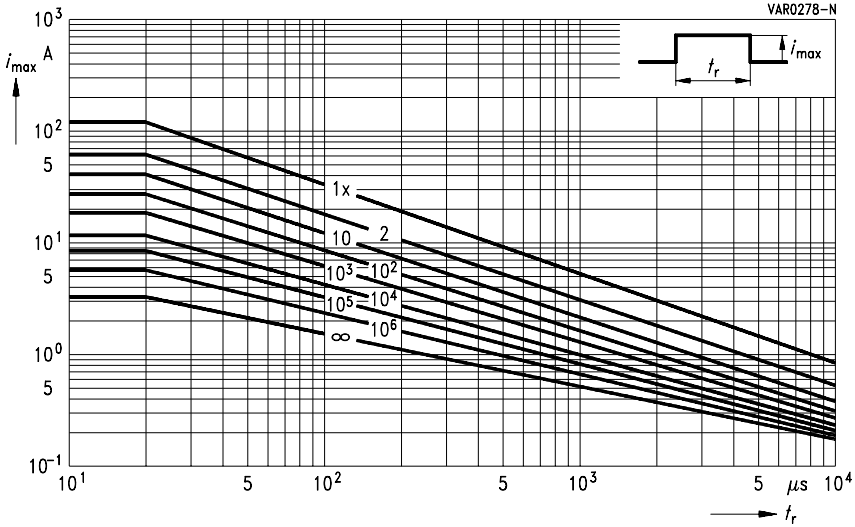


SIOV-CT/CN0805M4G

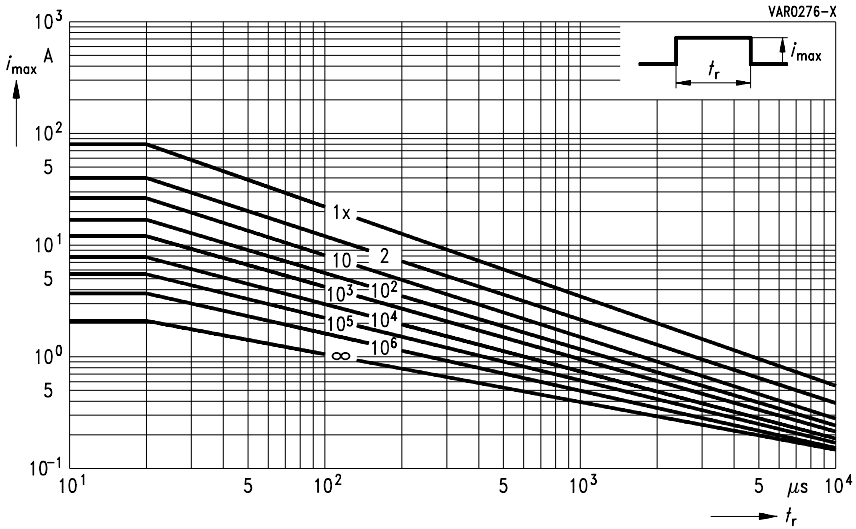
SIOV-CT/CN1206K35G … K60G

Maximum surge current

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



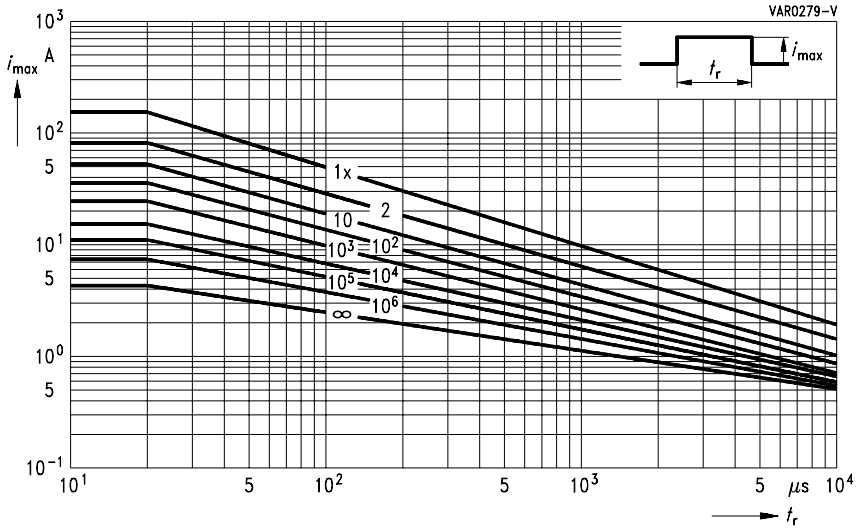
SIOV-CT/CN0805M6G … K17G SIOV-CT/CN0805M6CCG
SIOV-CT/CN0805S14BAUTOG



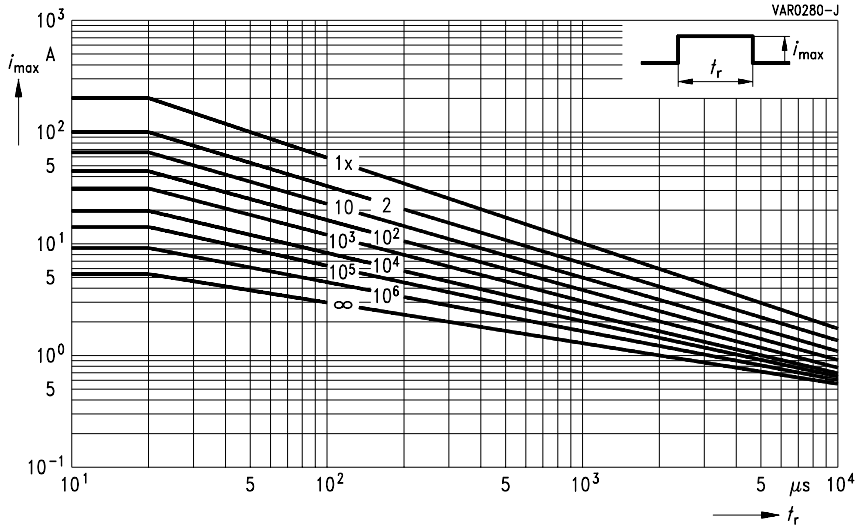
SIOV-CT/CN0805K20G … K30G

Maximum surge current

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



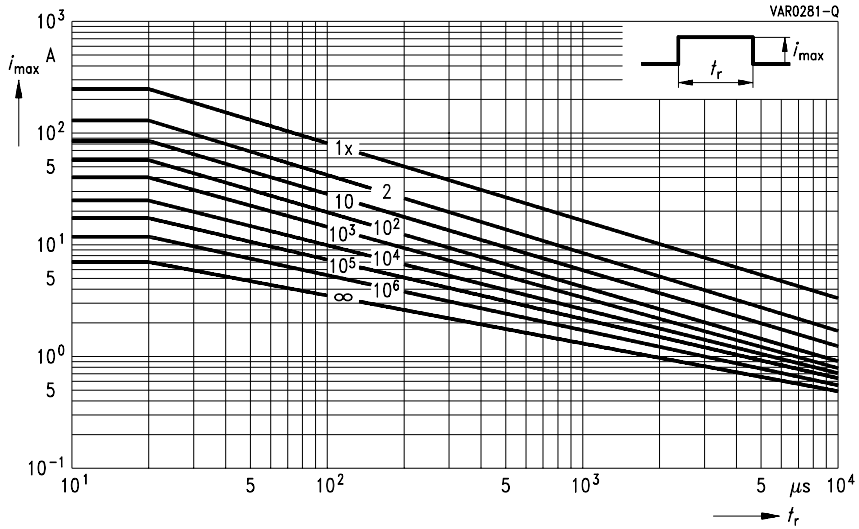
SIOV-CT/CN1206M4G



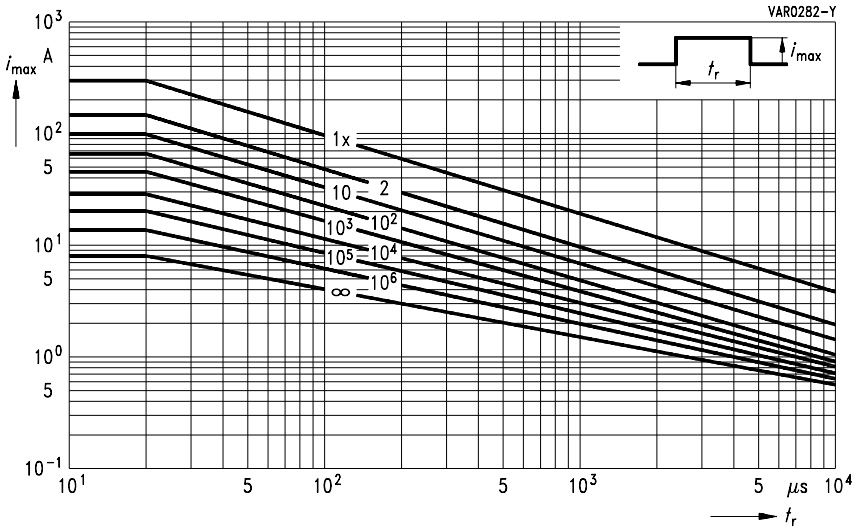
SIOV-CT/CN1206M6G … K30G **SIOV-CT/CN1206S14BAUTOG**
SIOV-CT/CN1210K50G … K60G

Maximum surge current

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



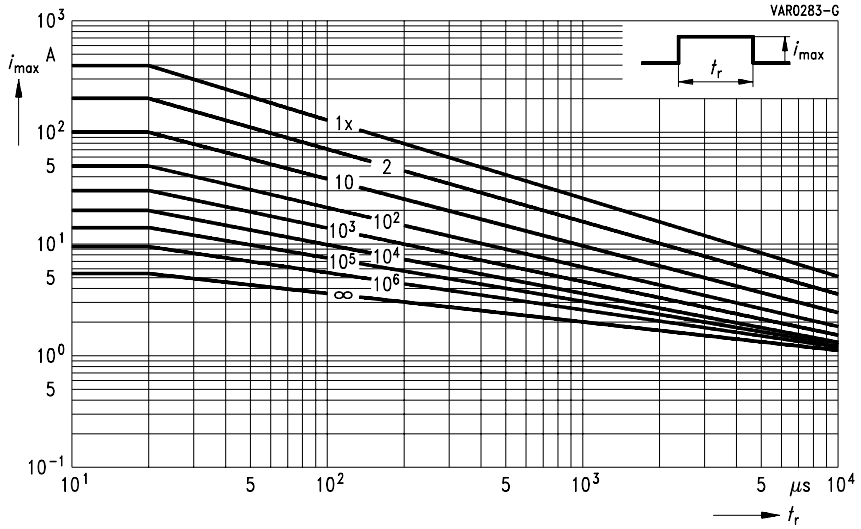
SIOV-CT/CN1210M4G **SIOV-CT/CN1210K35G … K40G**



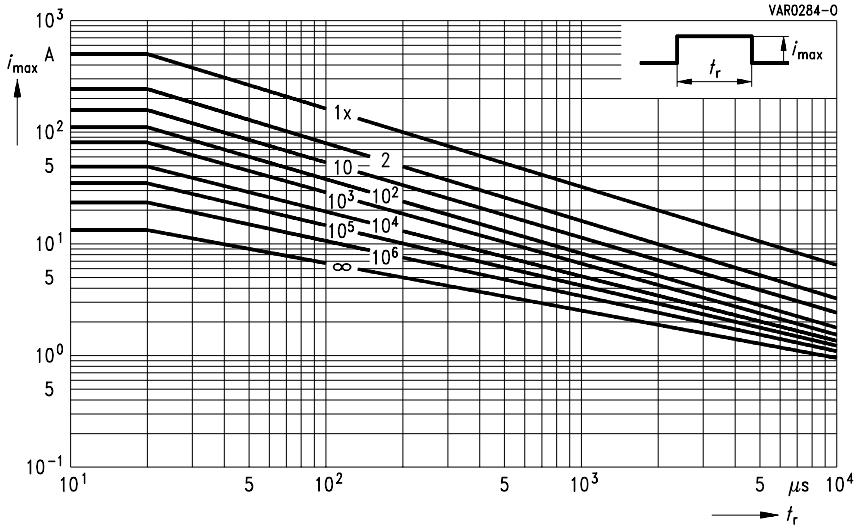
SIOV-CT/CN1210M6G **SIOV-CT/CN1210K25G … K30G**

Maximum surge current

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



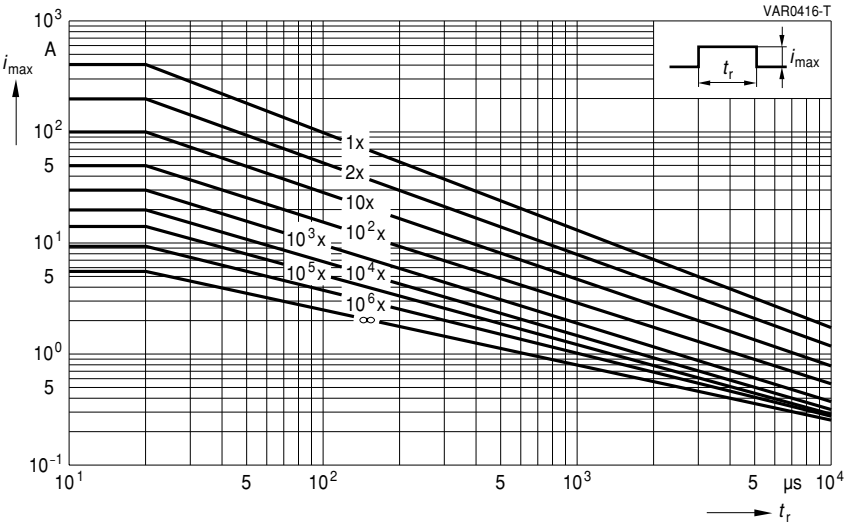
SIOV-CT/CN1210L8G … K20G **SIOV-CT/CN1210S14BAUTOG**
SIOV-CT/CN1812K50G … K60G



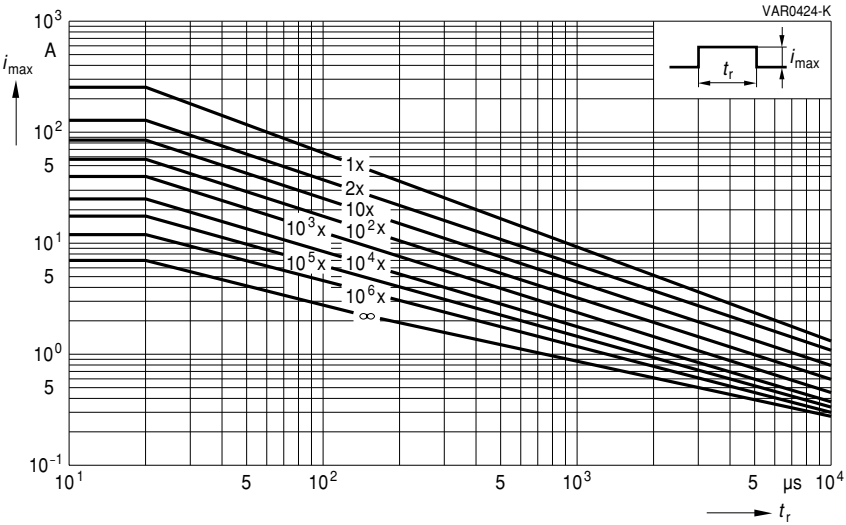
SIOV-CT/CN1812M4G … M6G **SIOV-CT/CN1812K35G … K40G**

Maximum surge current

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



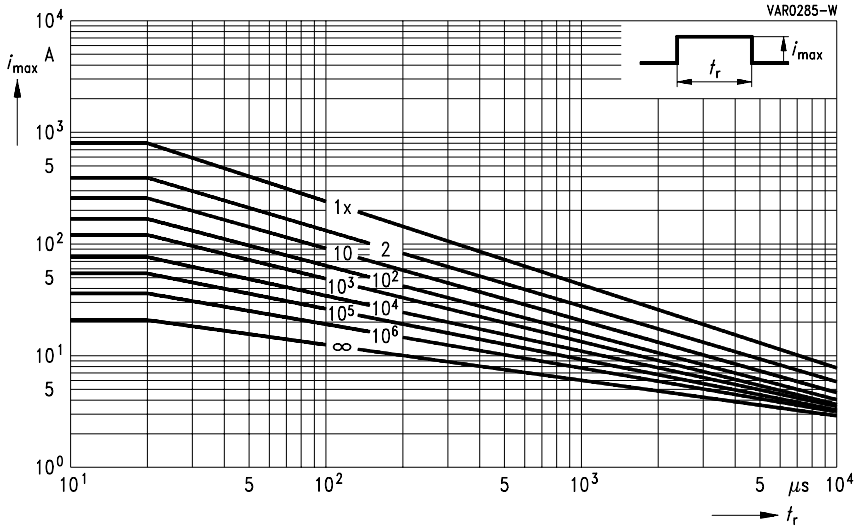
SIOV-CT/CN1812S60AG2 **SIOV-CT/CN1812K75TELEG2**



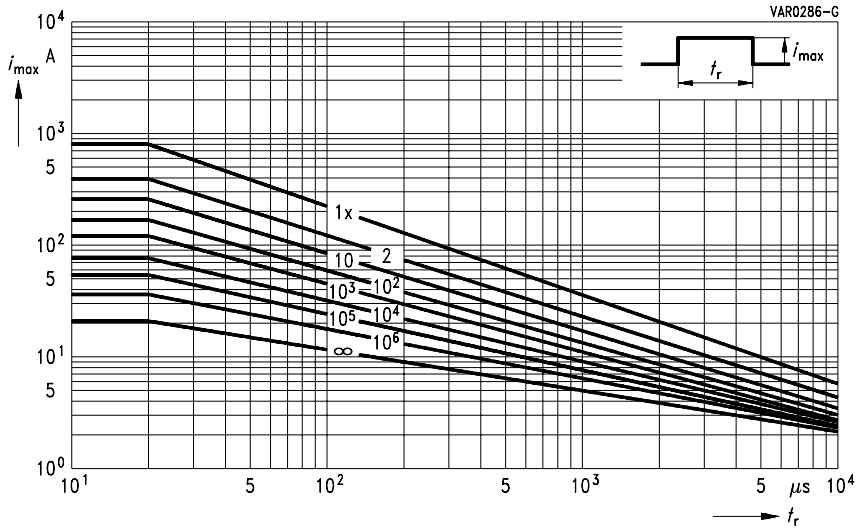
SIOV-CT/CN1812S95AG2 **SIOV-CT/CN1812K115 … K130TELEG2**

Maximum surge current

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



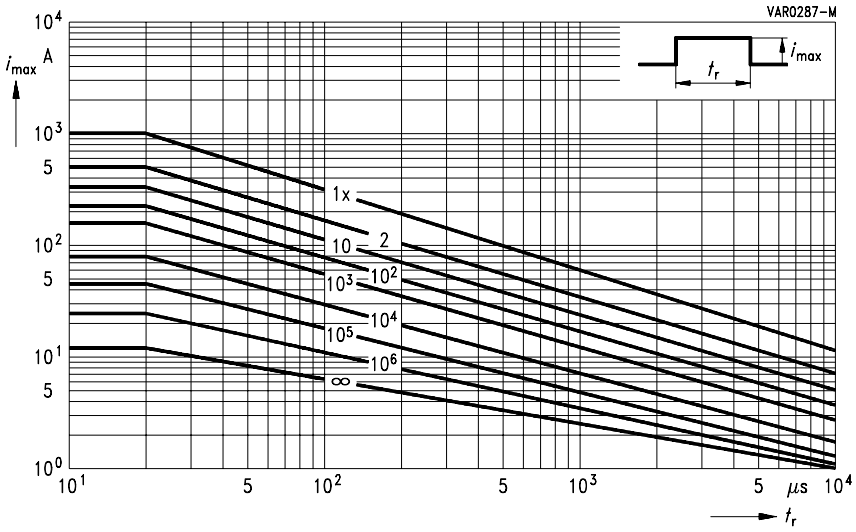
SIOV-CT/CN1812L8G … K30G **SHCV-SR1 … X/Z**
SIOV-CT/CN1812S14BAUTOG



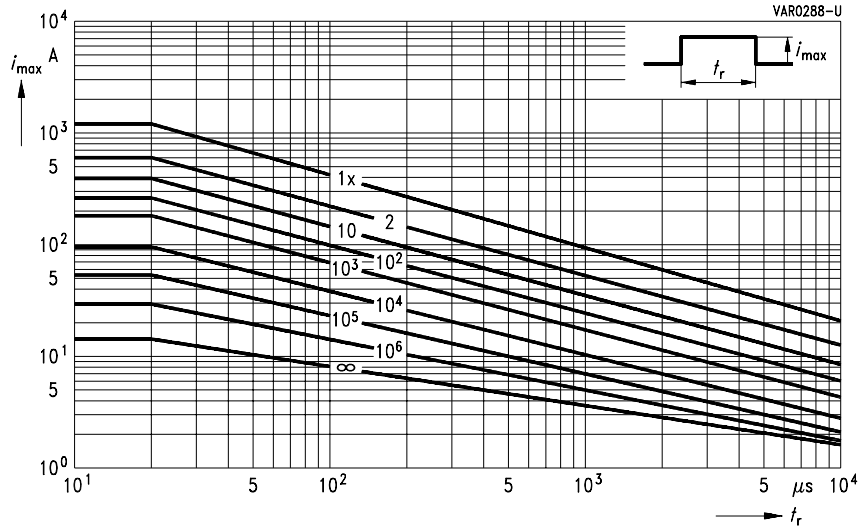
SIOV-CT/CN2220K50G … K60G

Maximum surge current

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



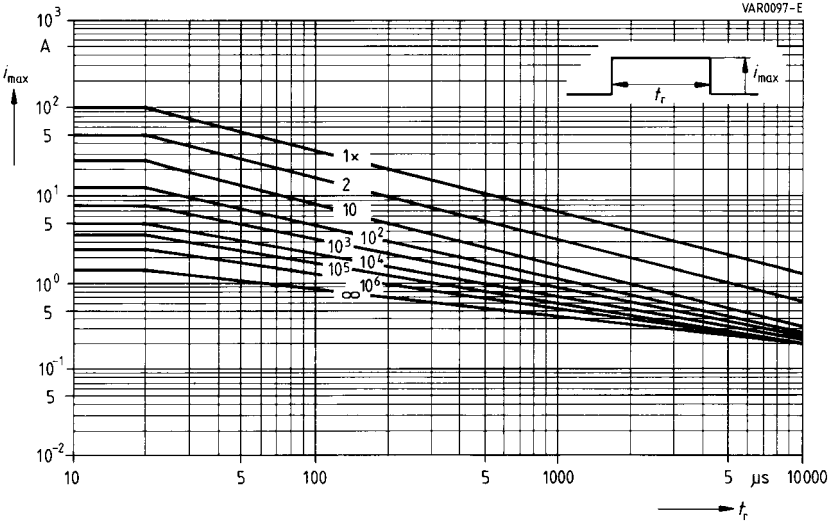
SIOV-CT/CN2220M4G **SIOV-CT/CN2220K35G … K40G**



SIOV-CT/CN2220M6G … K30G **SHCV-SR2 … X/Z** **SIOV-CT/CN2220 … AUTO(E2)G(2)**

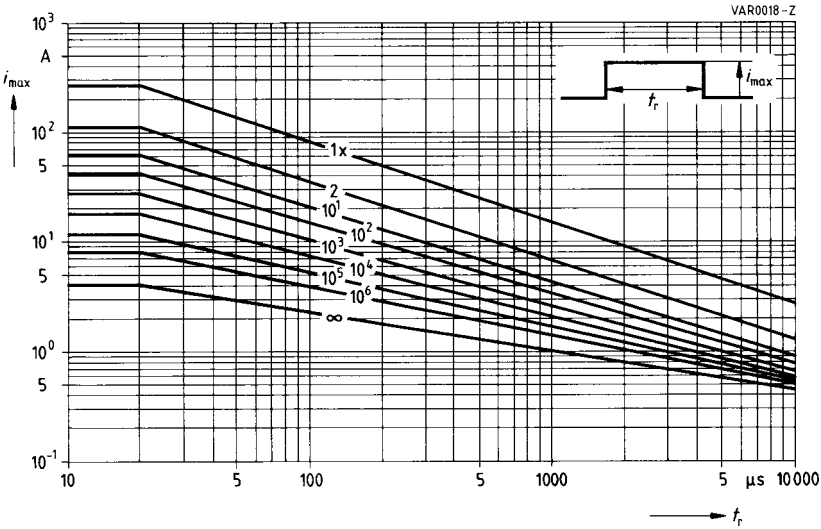
Maximum surge current

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



SIOV-S05K11 … K40

SIOV-CU3225K11G2 … K40G2
SIOV-CU3225K14AUTOG2 … K30AUTOG2

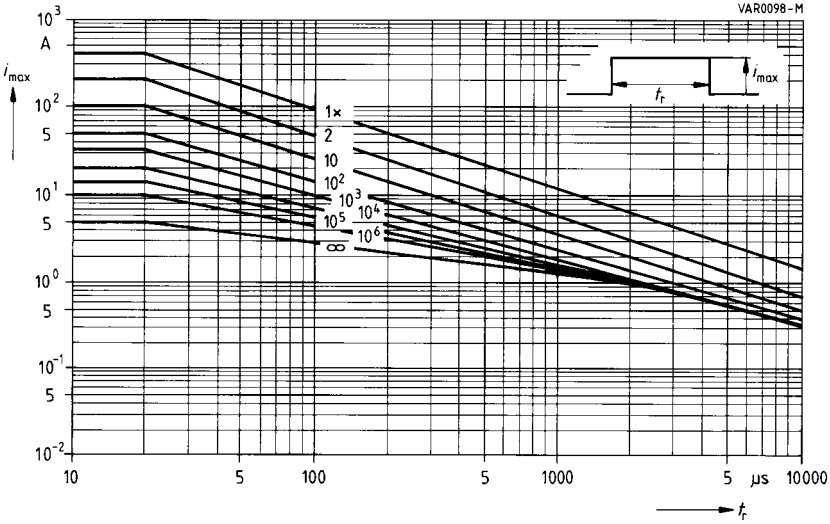


SIOV-S07K11 … K40
SIOV-S07K14AUTOS2D1

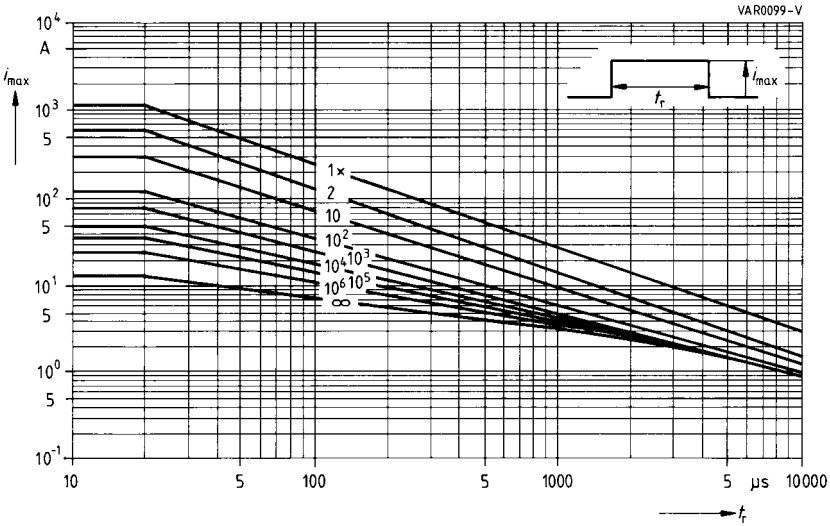
SIOV-CU4032K11G2 … K40G2
SIOV-CU4032K14AUTOG2 … K30AUTOG2

Maximum surge current

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



SIOV-S05K50 … K460
SIOV-CU3225K50G2 … K300G2

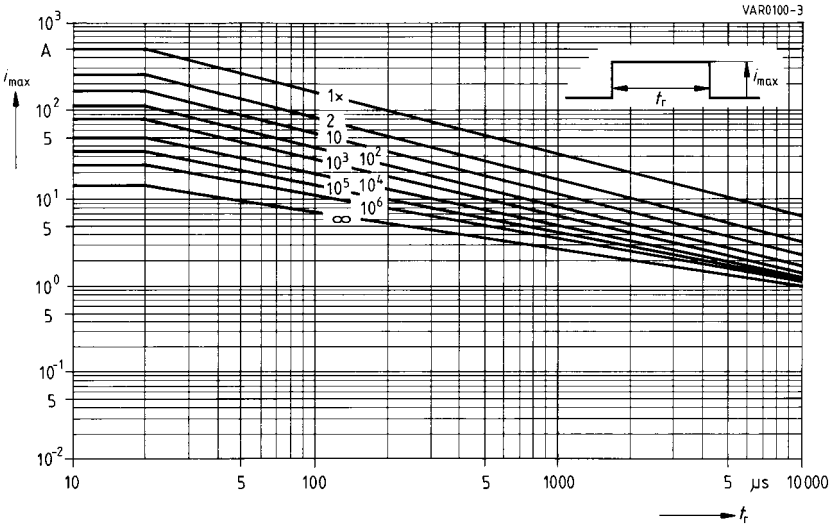


SIOV-S07K50 … K460
SIOV-S07S60AGS2/95AGS2

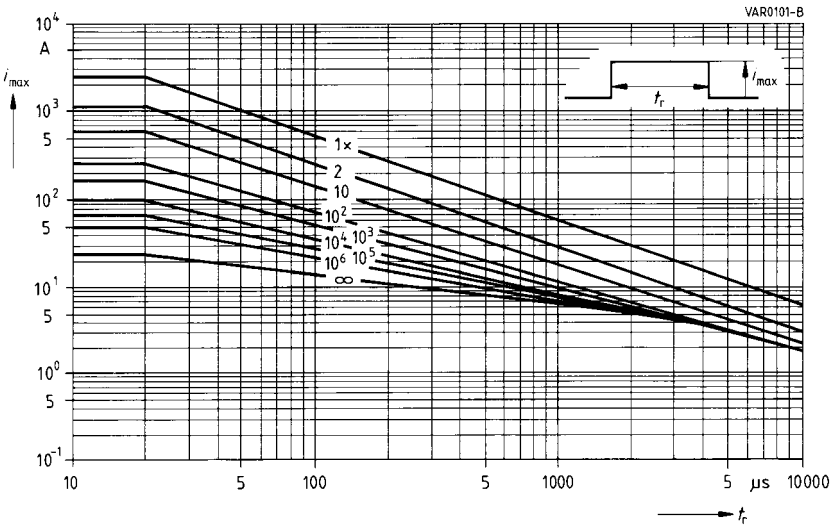
SIOV-CU4032K50G2 … K300G2
SIOV-CU4032S60AG2/S95AG2

Maximum surge current

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



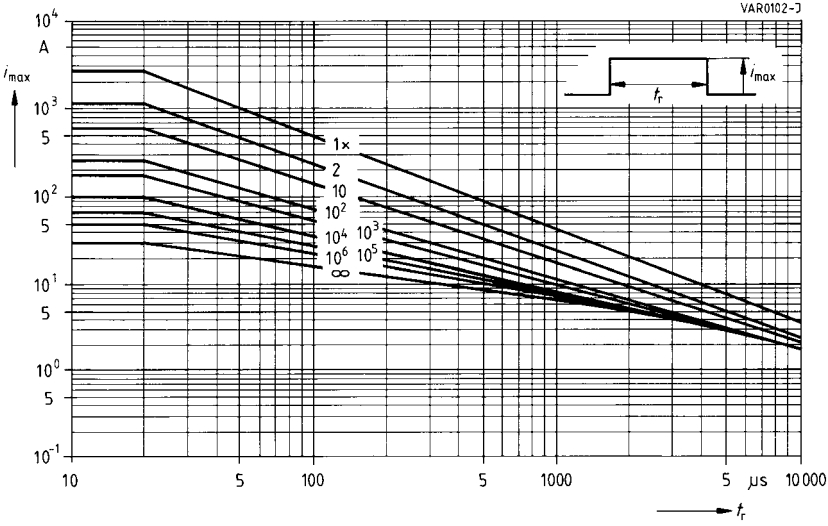
SIOV-S10K11 … K40
SIOV-S10K14AUTO … K40AUTO
SIOV-S10K14AUTOS5D1



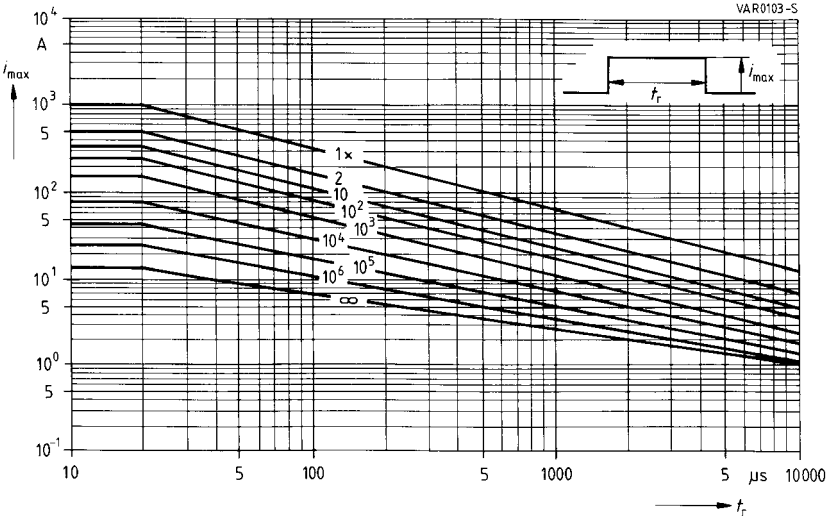
SIOV-S10K50 … K320

Maximum surge current

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



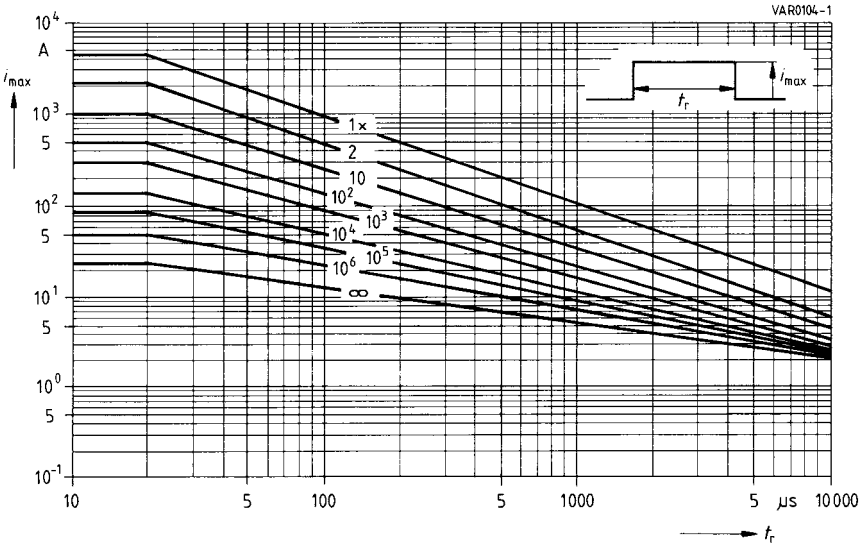
SIOV-S10K385 … K680



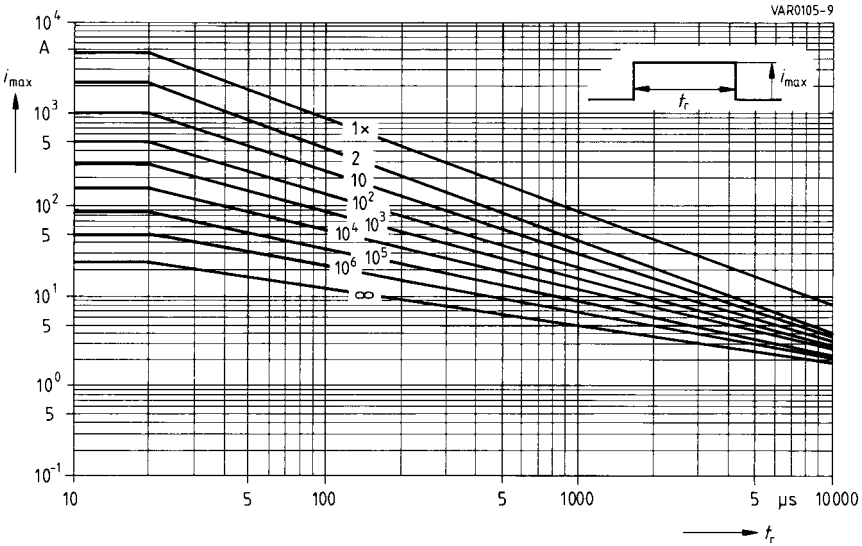
SIOV-S14K11 … K40
SIOV-S14K14AUTO … K40AUTO
SIOV-S14K14AUTOS5D1

Maximum surge current

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



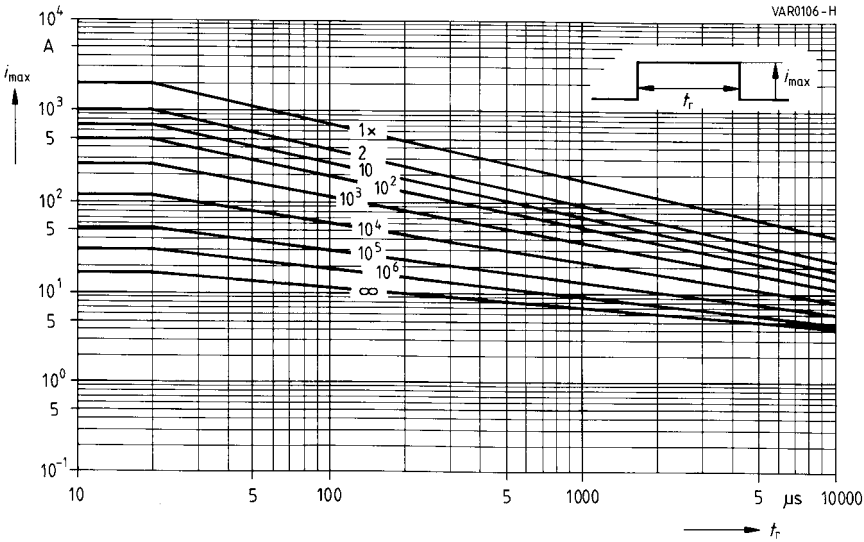
SIOV-S14K50 … K320



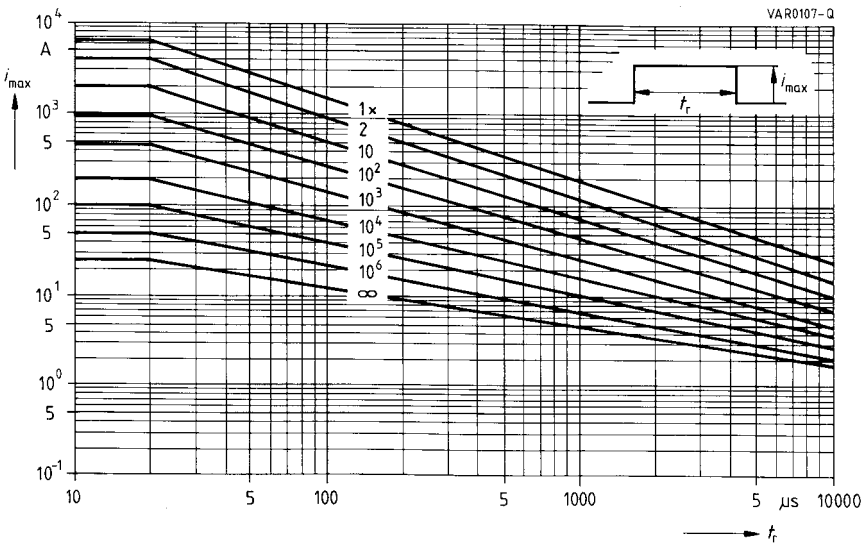
SIOV-S14K385 … K1000

Maximum surge current

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



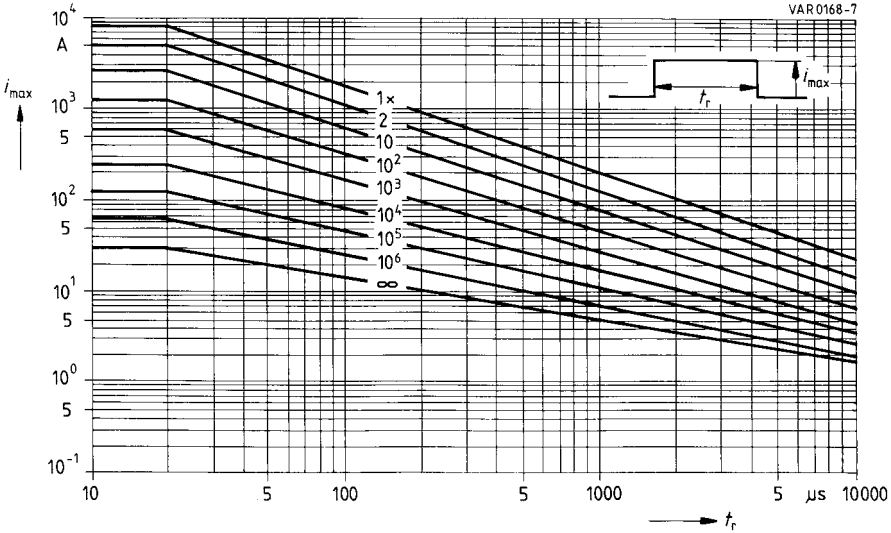
SIOV-S20K11 … K40 **SIOV-S20K14AUTO … K30AUTO**



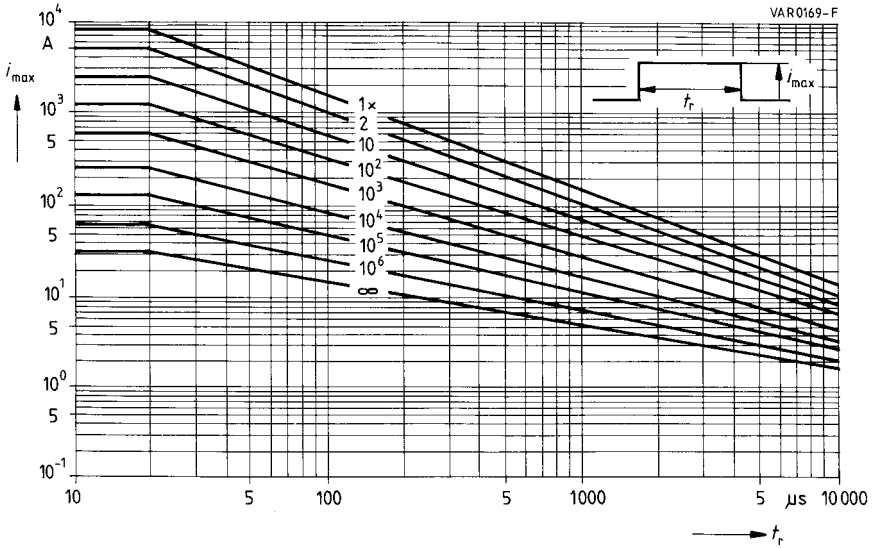
SIOV-S20K50 … K115

Maximum surge current

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



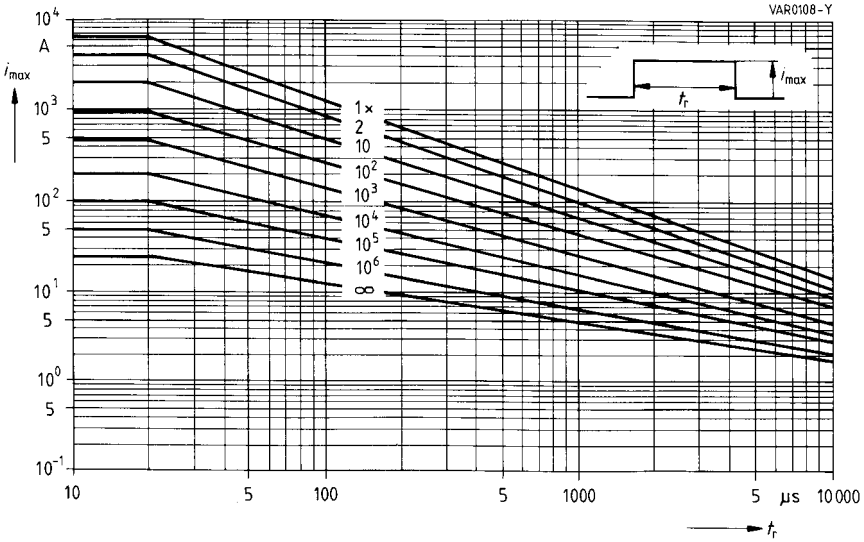
SIOV-S20K130 … K320



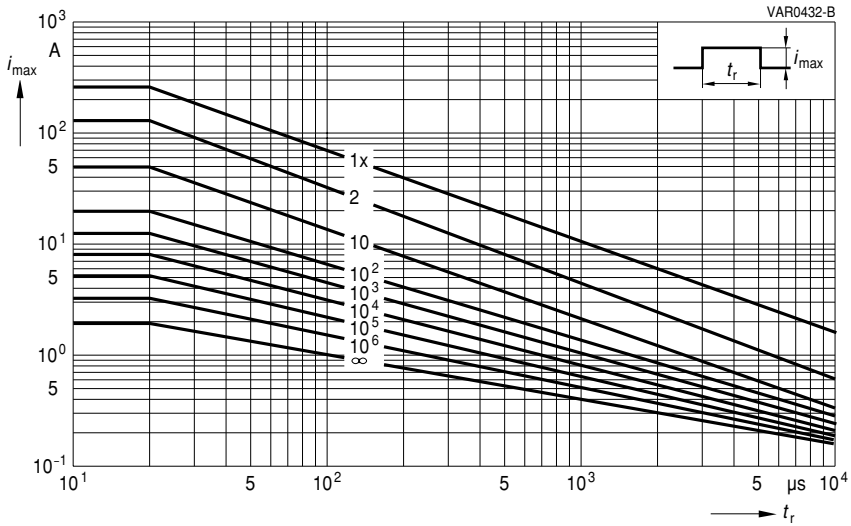
SIOV-S20K385 … K460

Maximum surge current

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



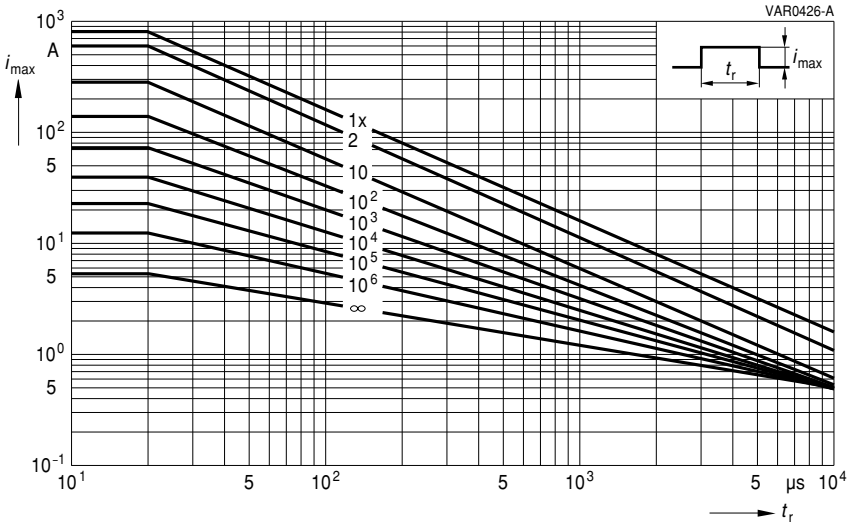
SIOV-S20K510 … K1000



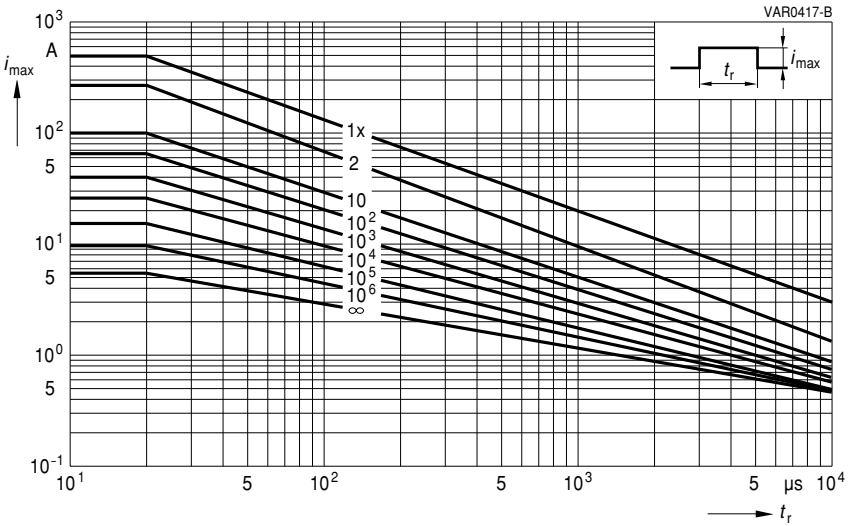
SIOV-S05K11 … K40E2

Maximum surge current

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



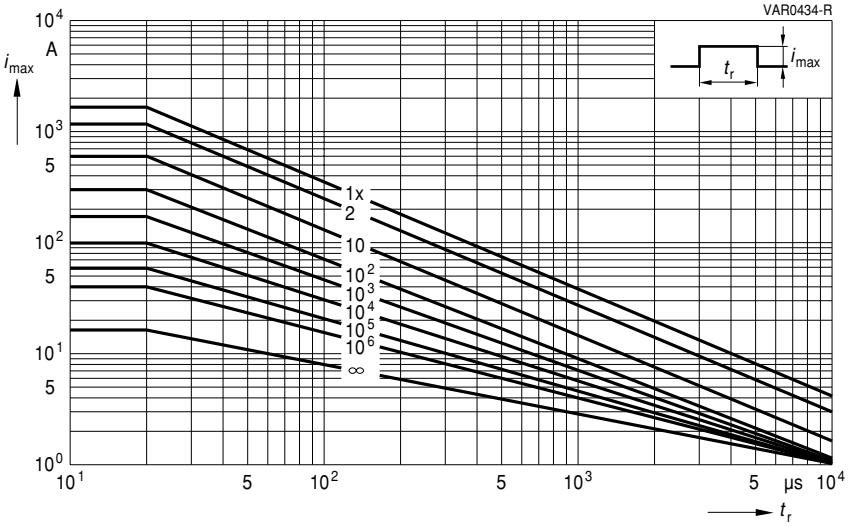
SIOV-S05K50 … K300E2



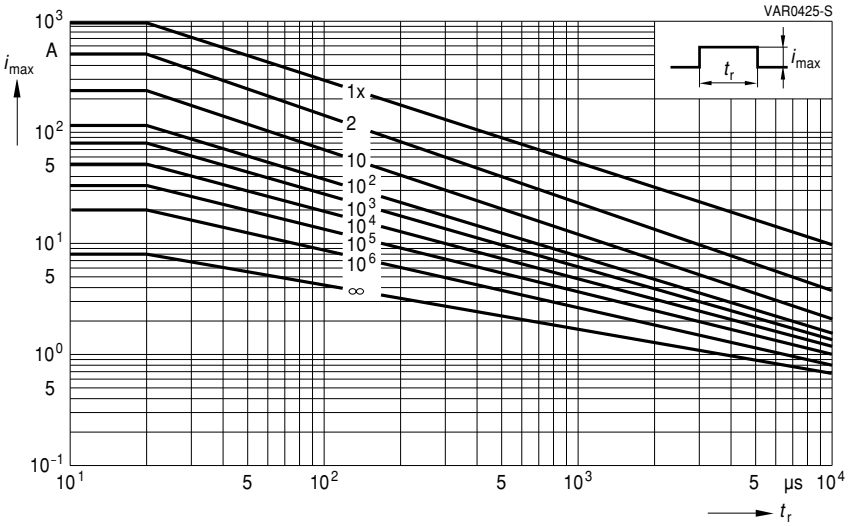
SIOV-S07K11 … K40E2

Maximum surge current

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



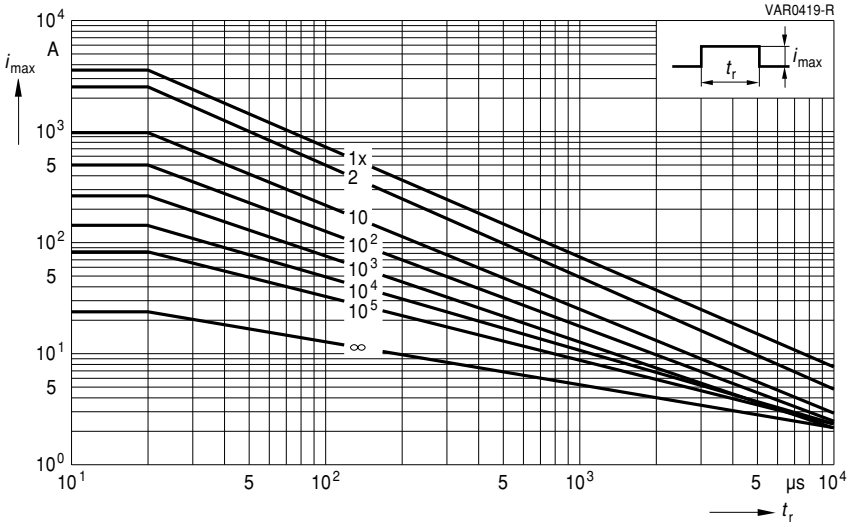
SIOV-S07K50 … K320E2



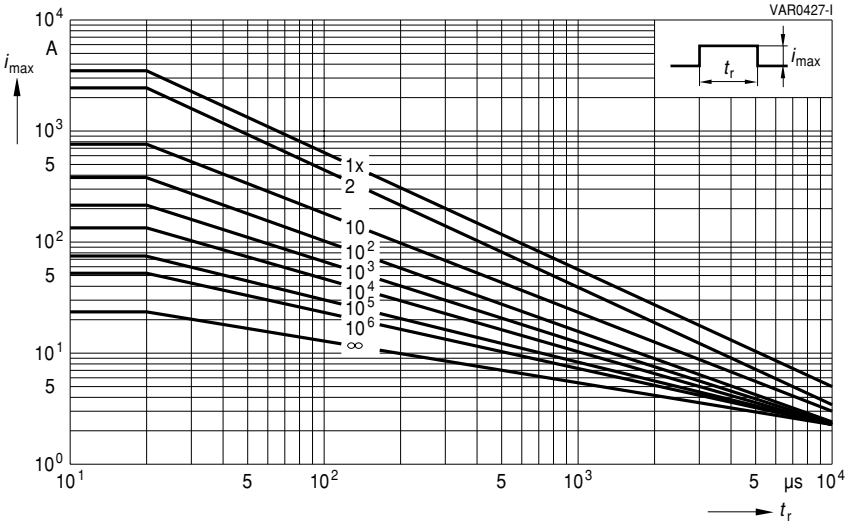
SIOV-S10K11 … K40E2

Maximum surge current

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



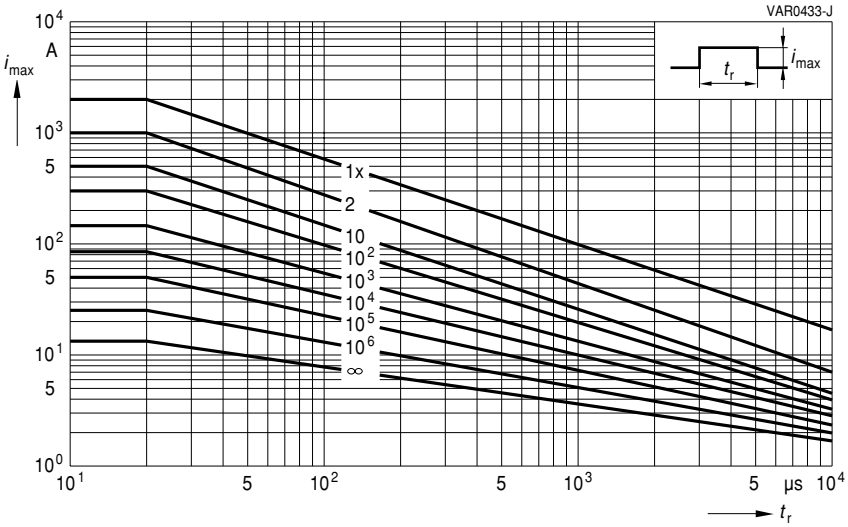
SIOV-S10K50 … K320E2



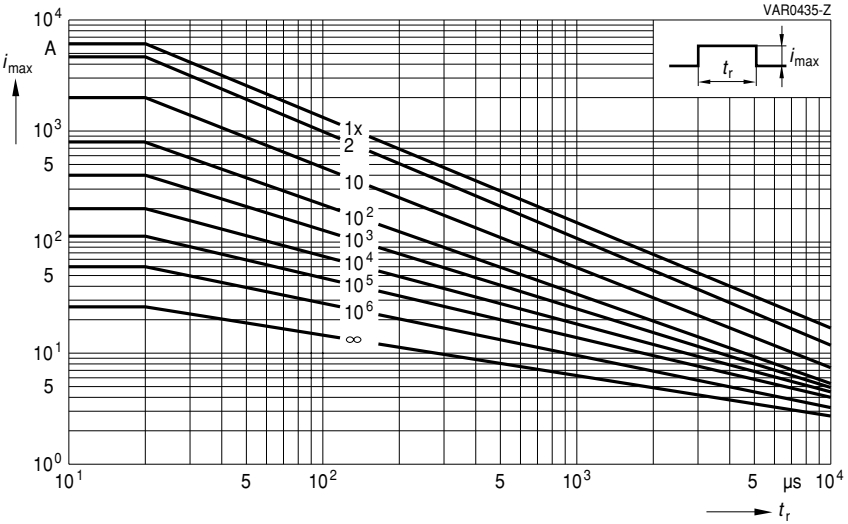
SIOV-S10K385 … K680E2

Maximum surge current

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



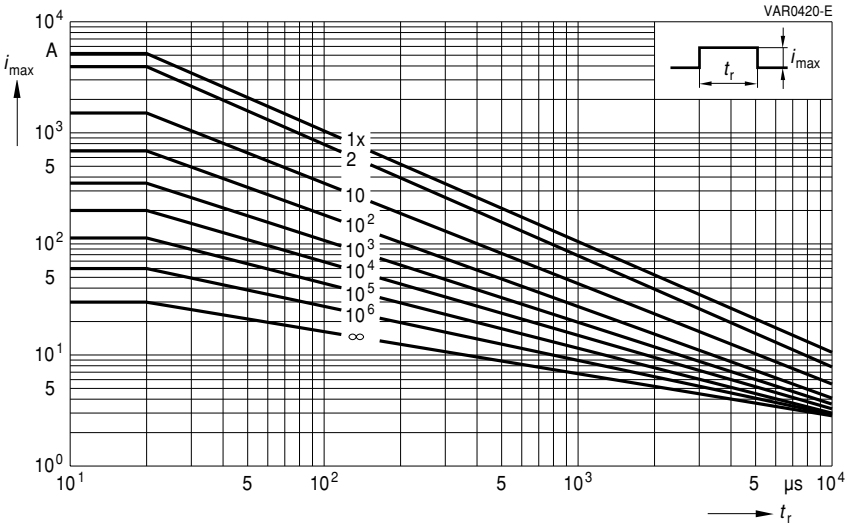
SIOV-S14K11 … K40E2



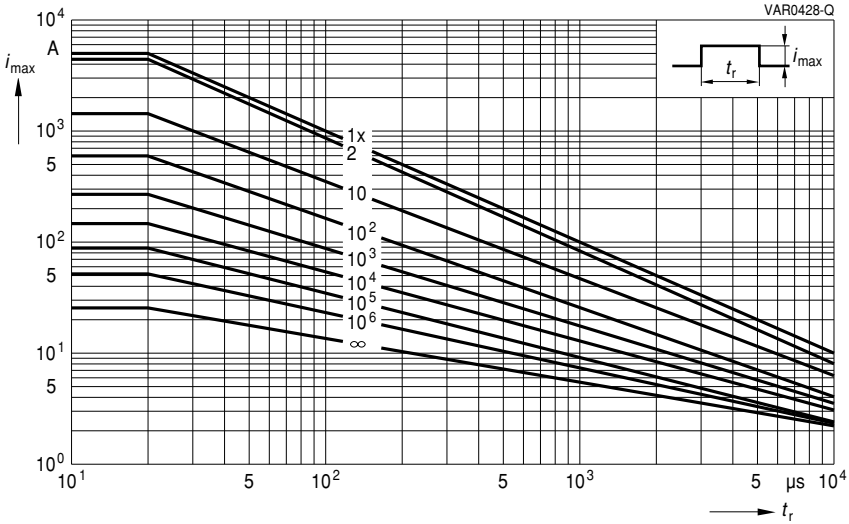
SIOV-S14K50 … K320E2

Maximum surge current

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



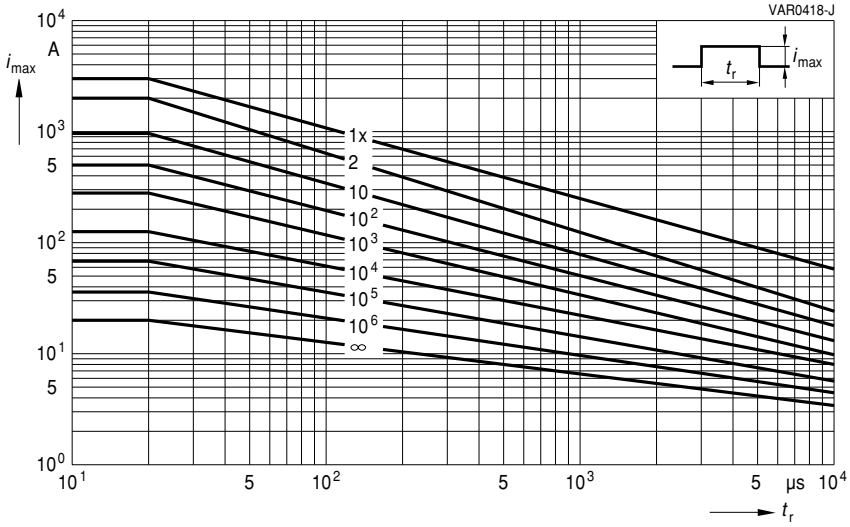
SIOV-S14K385 … K680E2



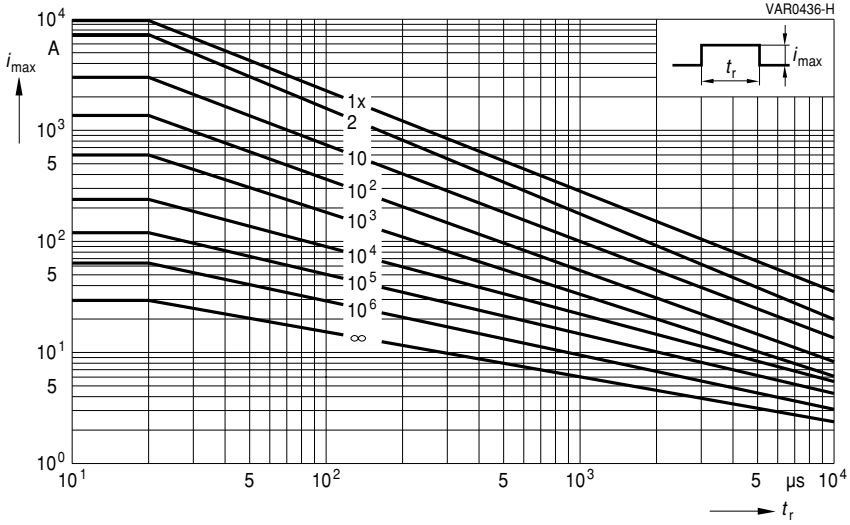
SIOV-S14K1000E2

Maximum surge current

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



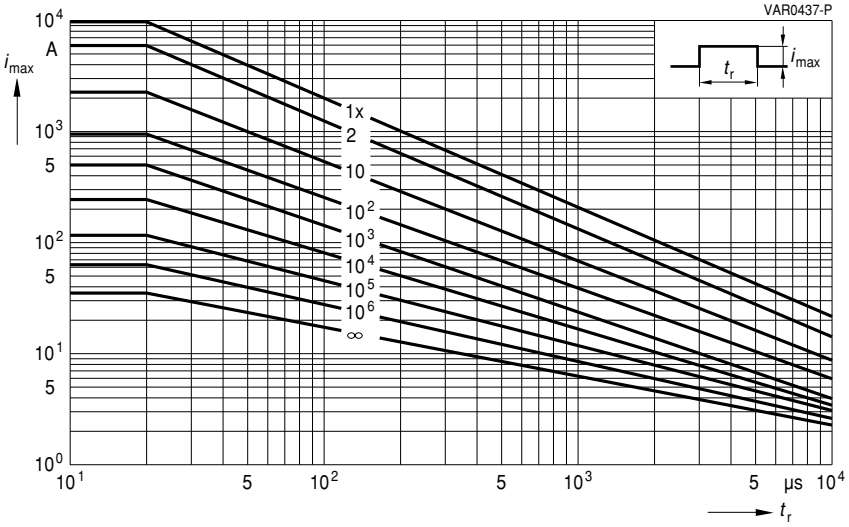
SIOV-S20K11 … K40E2



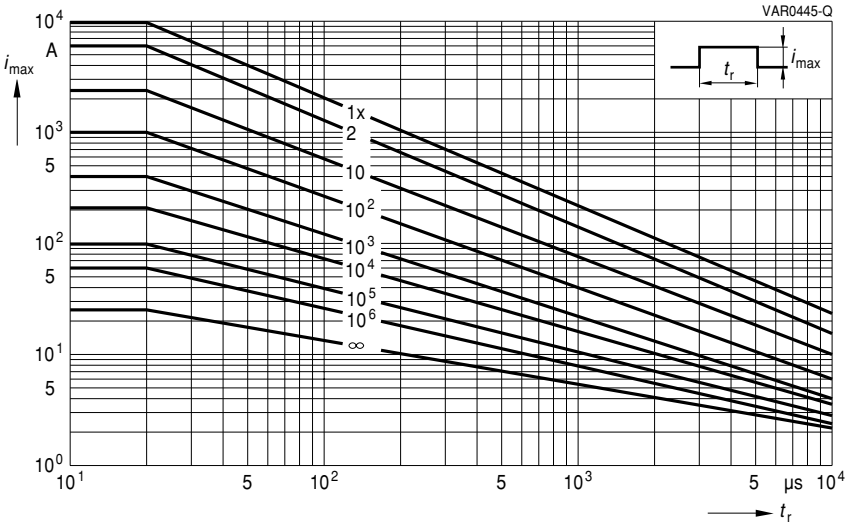
SIOV-S20K50 … K320E2

Maximum surge current

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



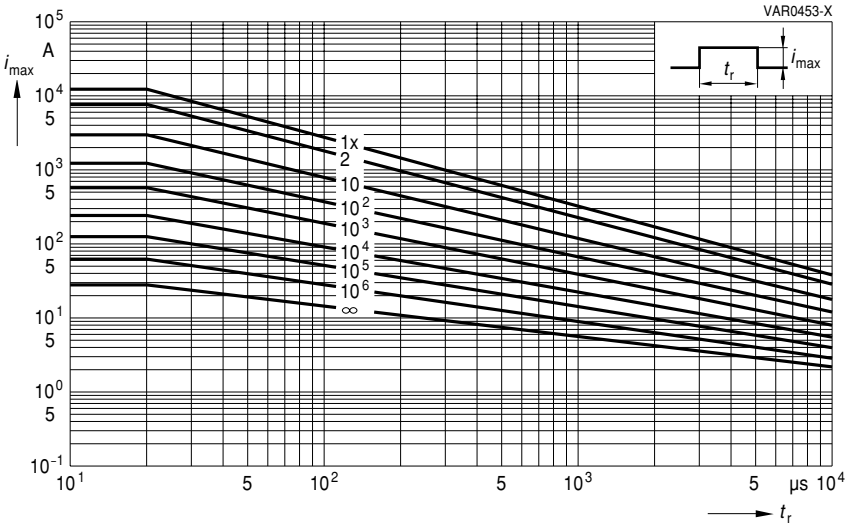
SIOV-S20K385 … K680E2



SIOV-S20K1000E2

Maximum surge current

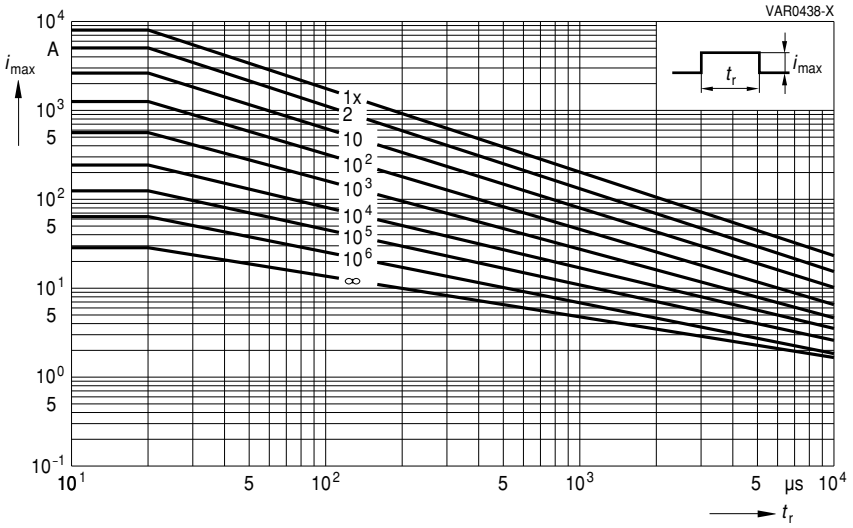
$i_{max} = f(t_r$, pulse train – for explanation of the derating curves refer to section 1.8.1)



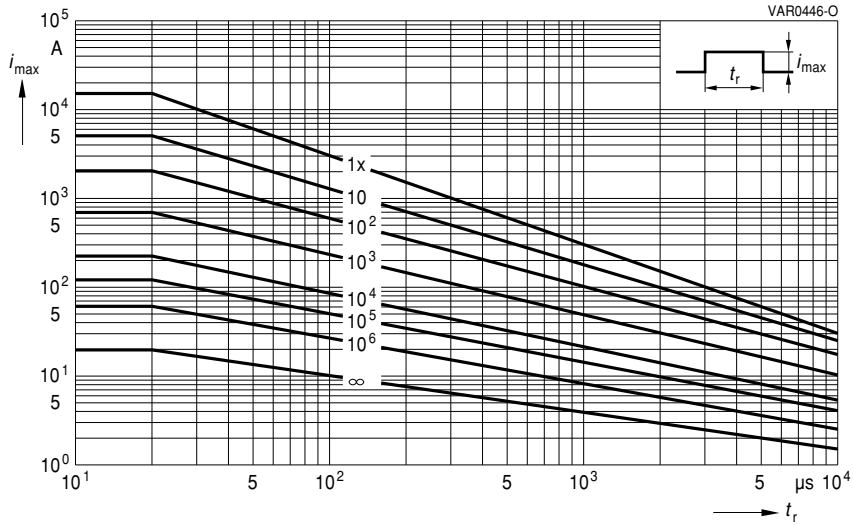
SIOV-S20K115 … K320E3

Maximum surge current

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



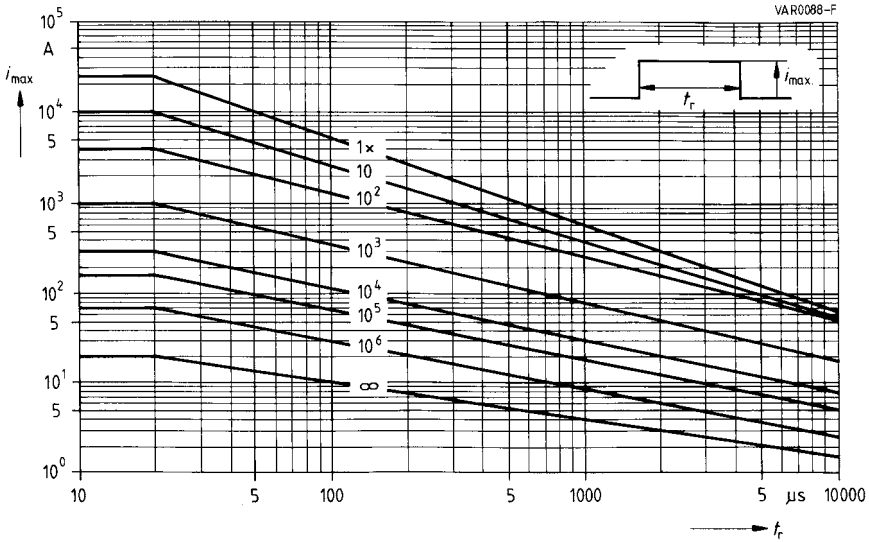
SIOV-Q14K130 … K320



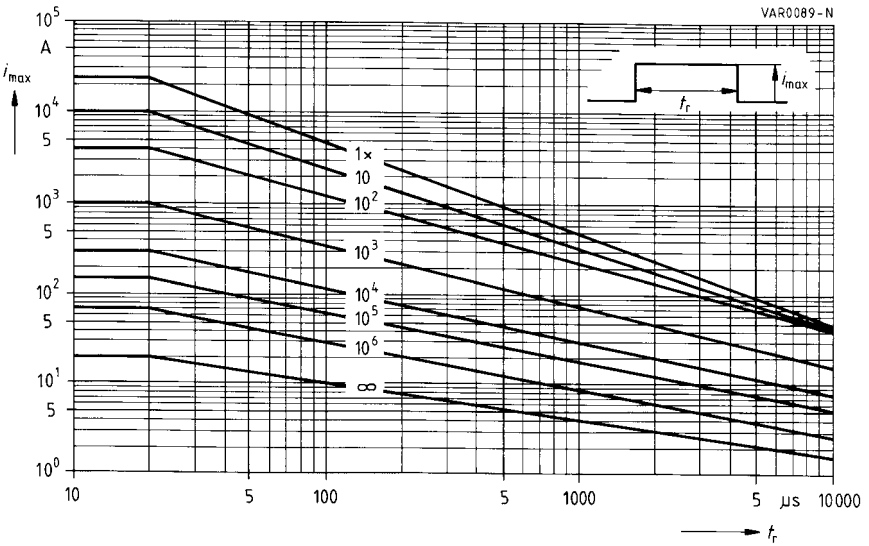
SIOV-Q20K130 … K320

Maximum surge current

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



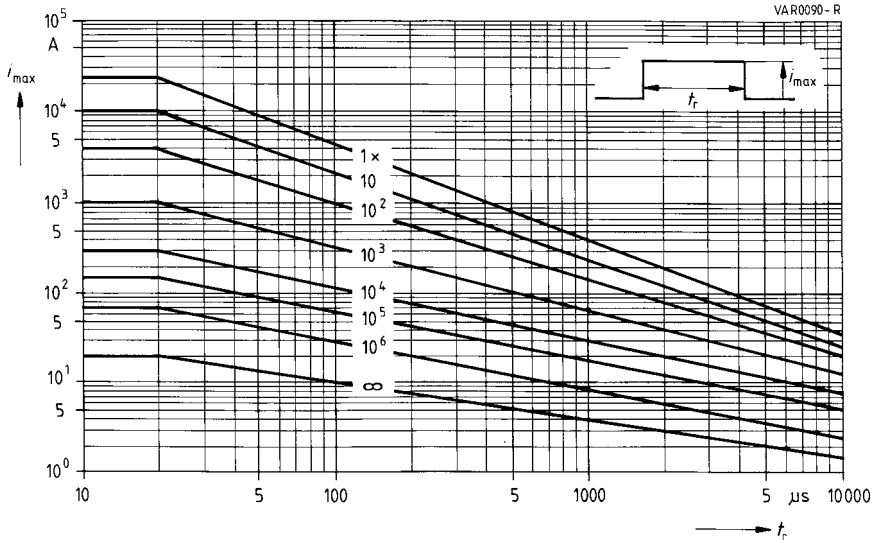
SIOV-B32K130 … K150 **SIOV-B40K75**



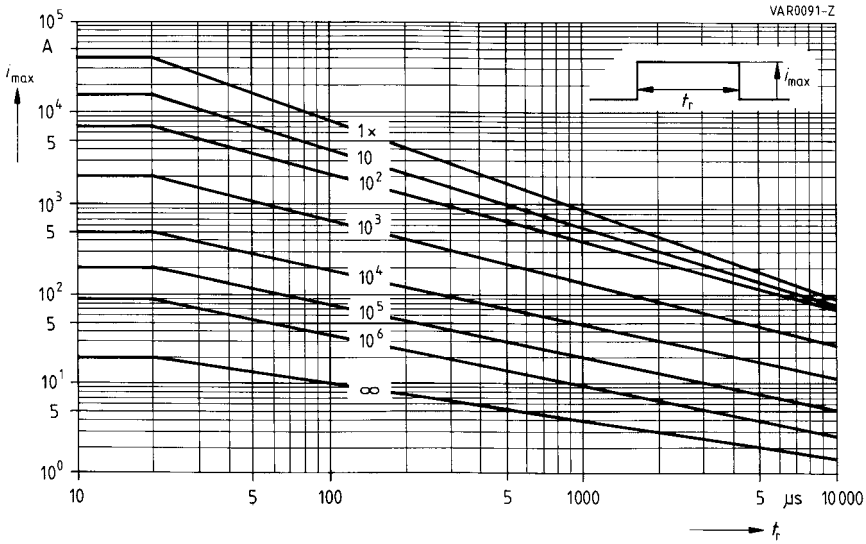
SIOV-B32K230 … K460

Maximum surge current

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



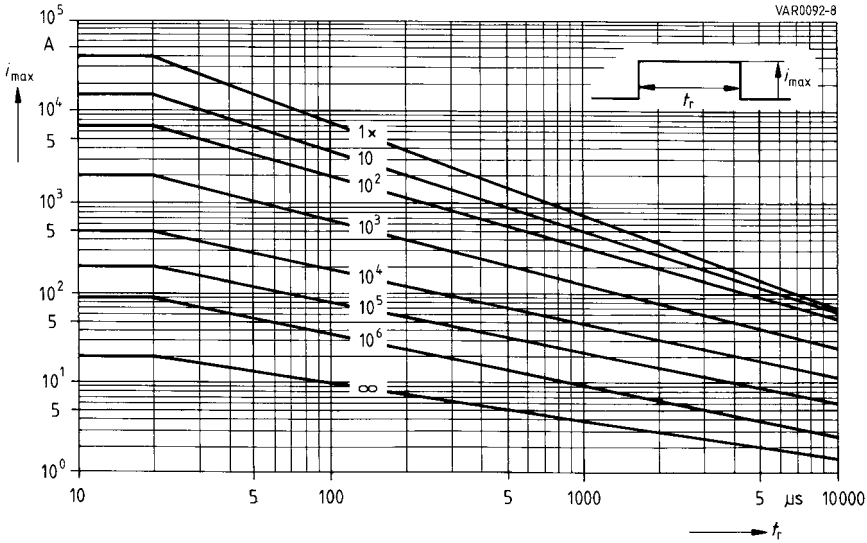
SIOV-B32K550 … K750



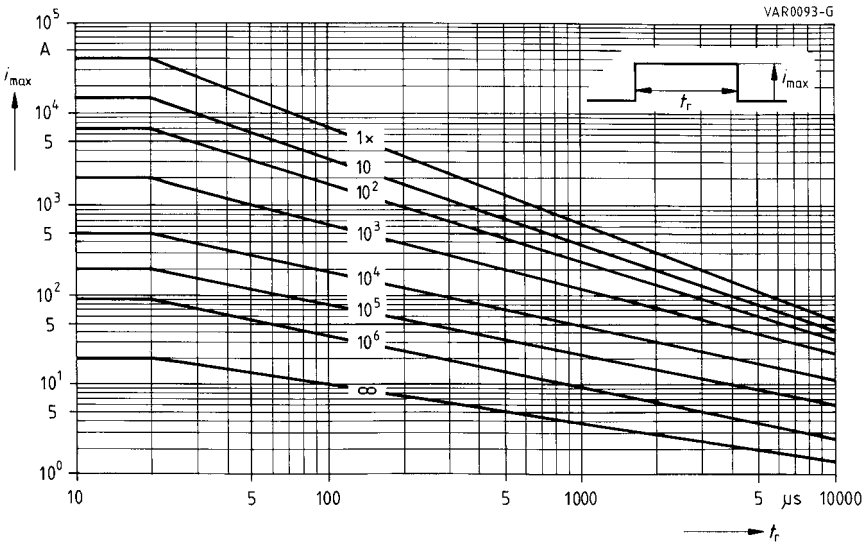
SIOV-B40K130 … K150 **SIOV-LS40K130QP … K150QP(K2)**

Maximum surge current

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



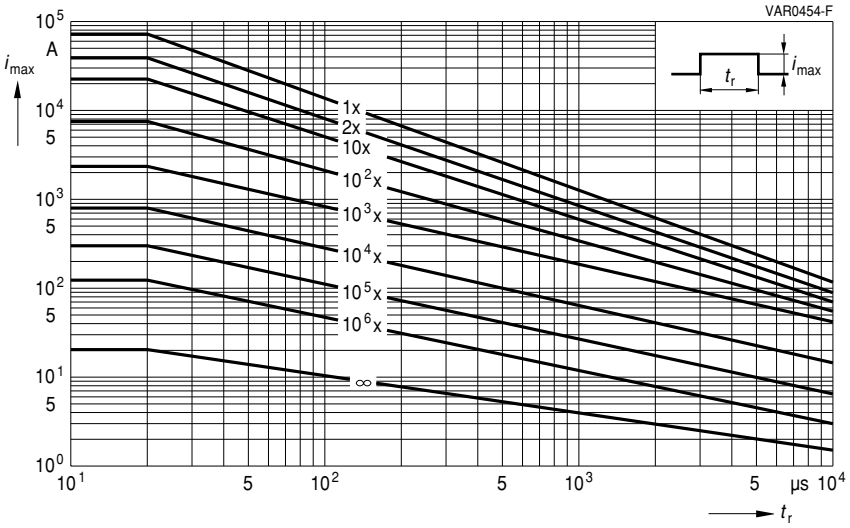
SIOV-B40K230 … K460 **SIOV-LS40K230QP … K460QP(K2)**



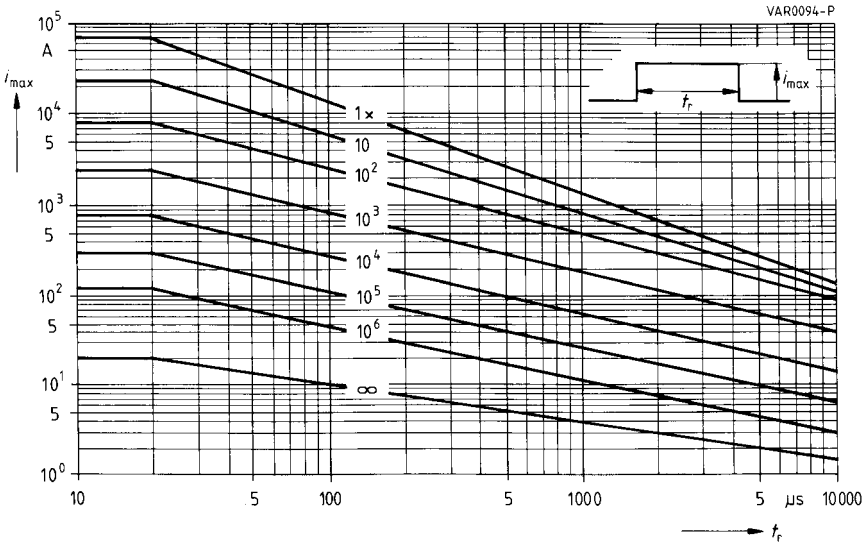
SIOV-B40K550 … K750 **SIOV-LS40K550QP … K750QP(K2)**

Maximum surge current

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



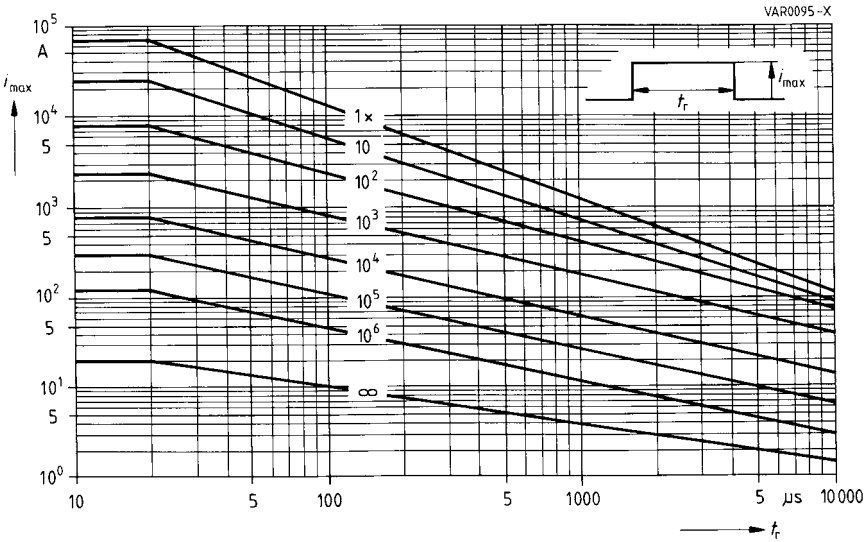
SIOV-LS50K130 … K550P(K2)



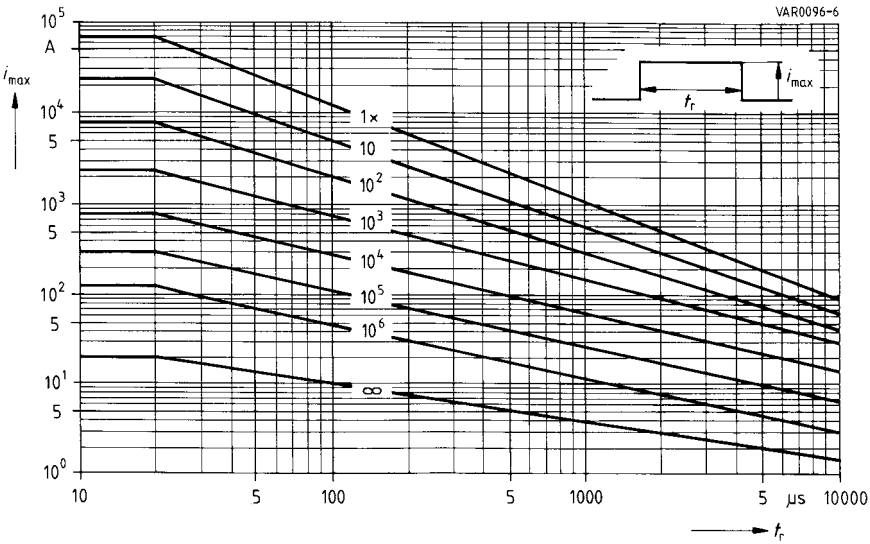
SIOV-B60K130 … K150

Maximum surge current

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



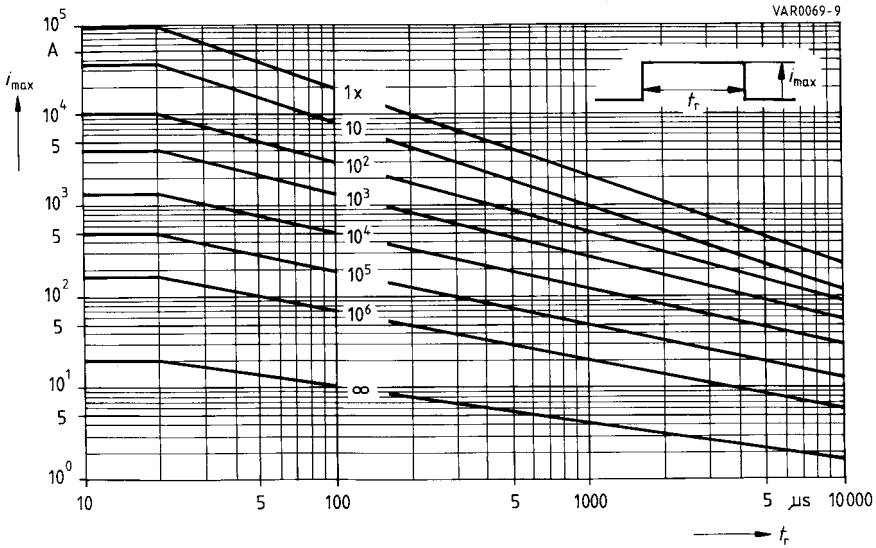
SIOV-B60K230 … K460



SIOV-B60K550 … K1000

Maximum surge current

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

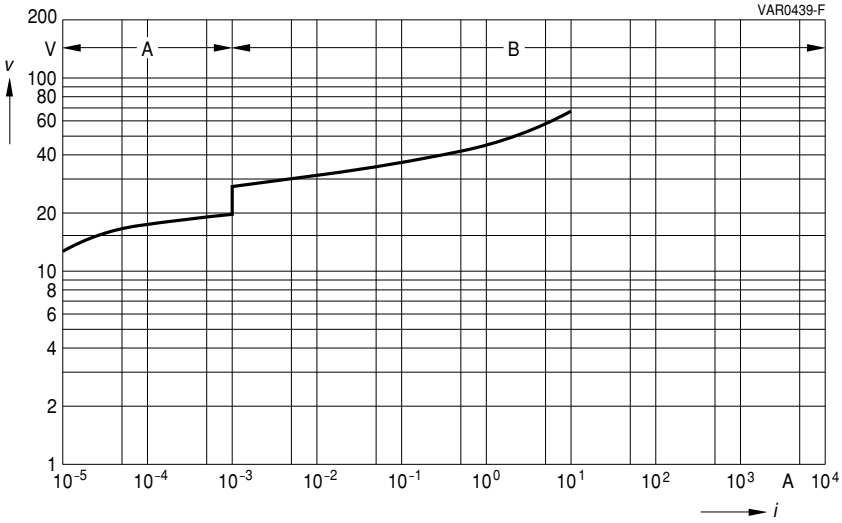


SIOV-B80K130 … K1100

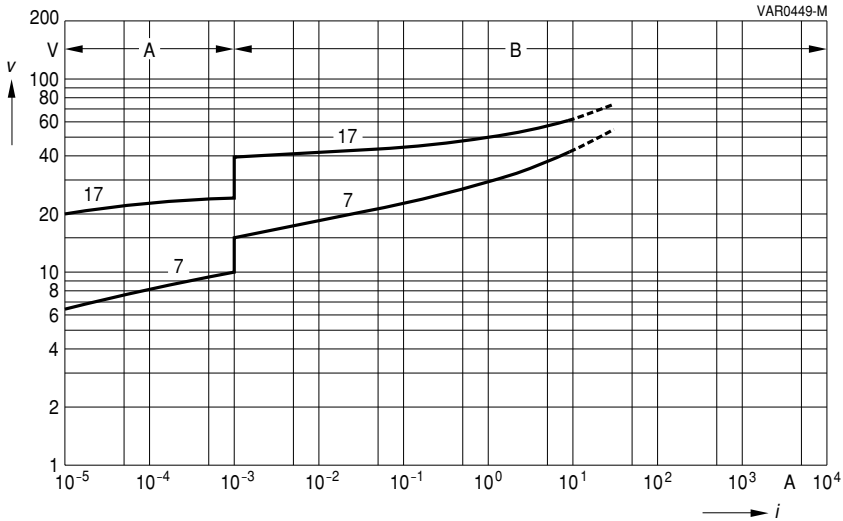
$v = f(i)$ – for explanation of the characteristics refer to section 1.6.3

A = Leakage current
B = Protection level

} for worst-case varistor tolerances



SIOV-CT/CN0402L14G(K2)

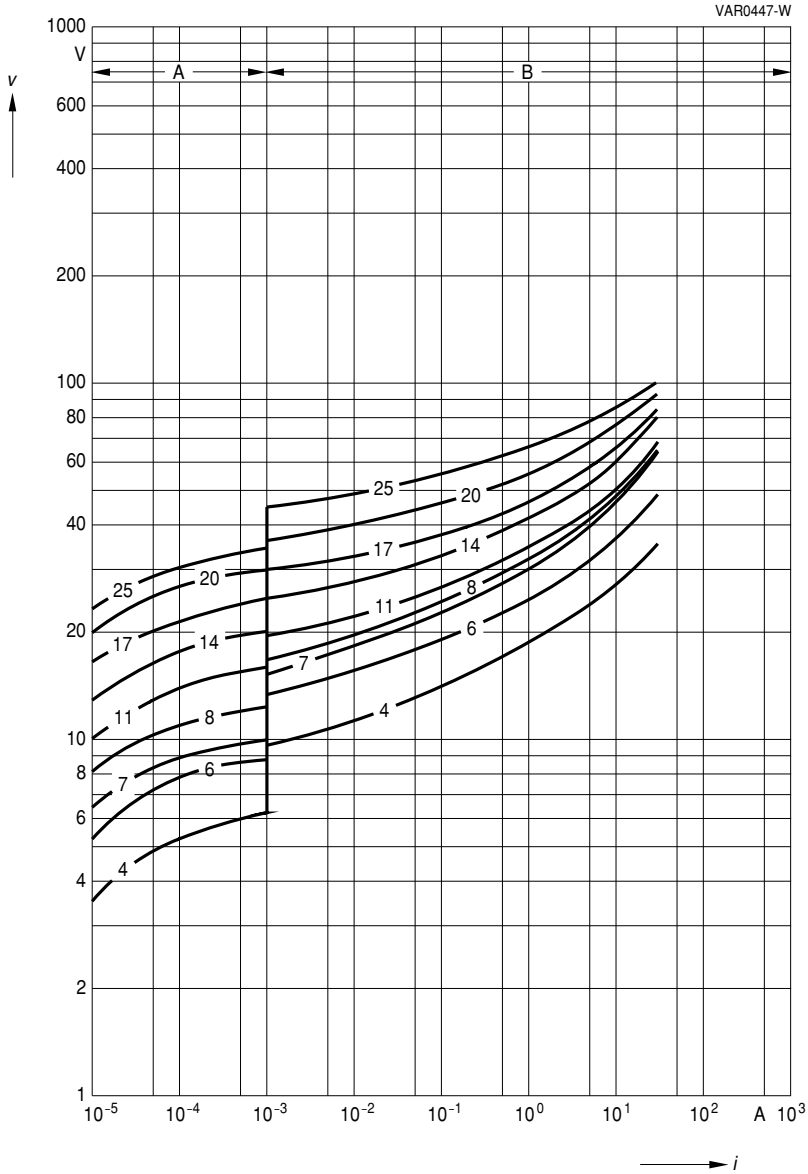


SIOV-CA06P4M7GK2
SIOV-CA06P4S17ALCGK2
SIOV-CA05P4S17ALCGK2
SIOV-CA04P2S17ALCGK2

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

A = Leakage current
B = Protection level

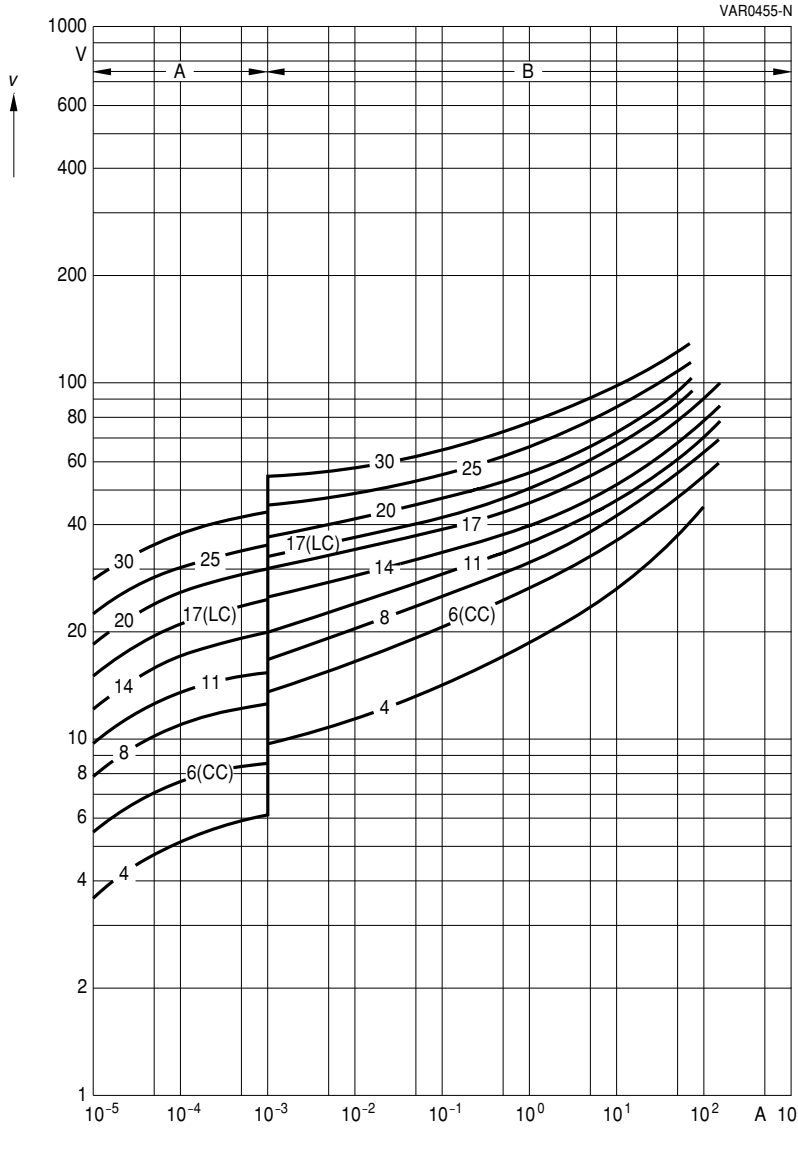
} for worst-case varistor tolerances



SIOV-CT/CN0603M4G … K25G **SIOV-CT/CN0603K17LCG**

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

A = Leakage current
B = Protection level
} for worst-case varistor tolerances

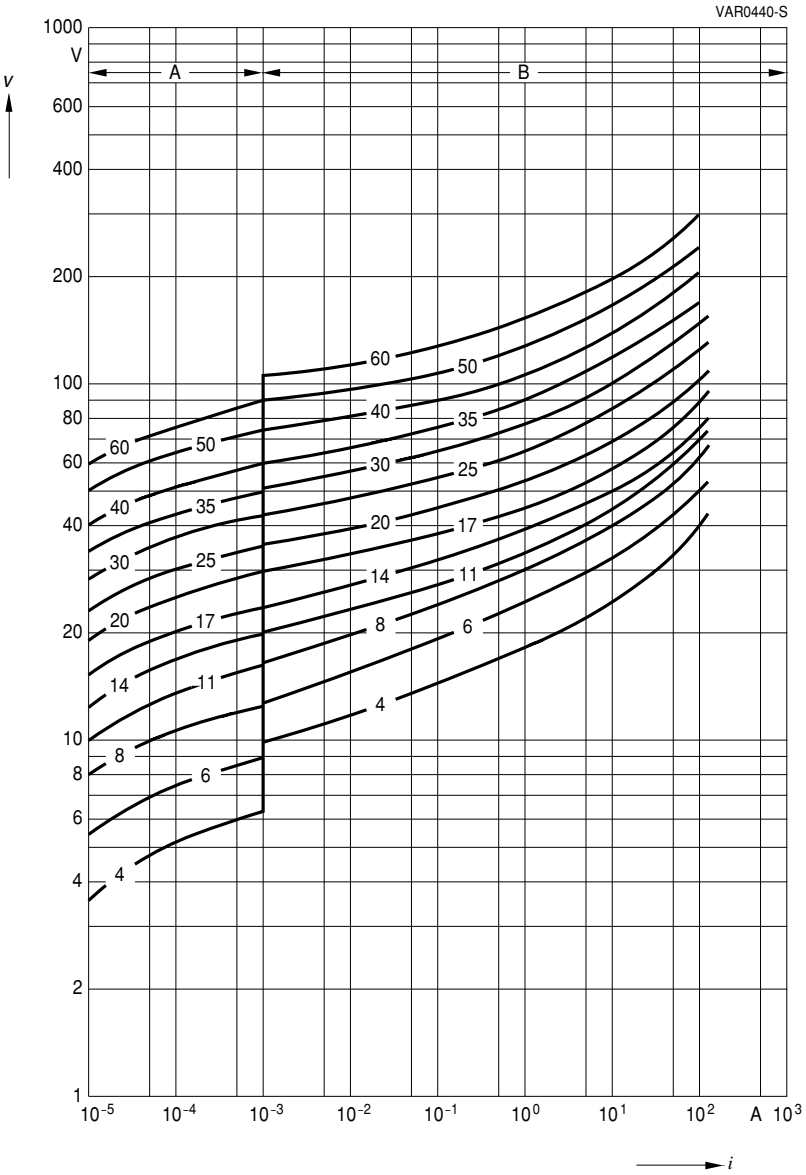


SIOV-CT/CN0805M4G … K30G **SIOV-CT/CN0805K17LCG** **SIOV-CT/CN0805M6CCG**

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

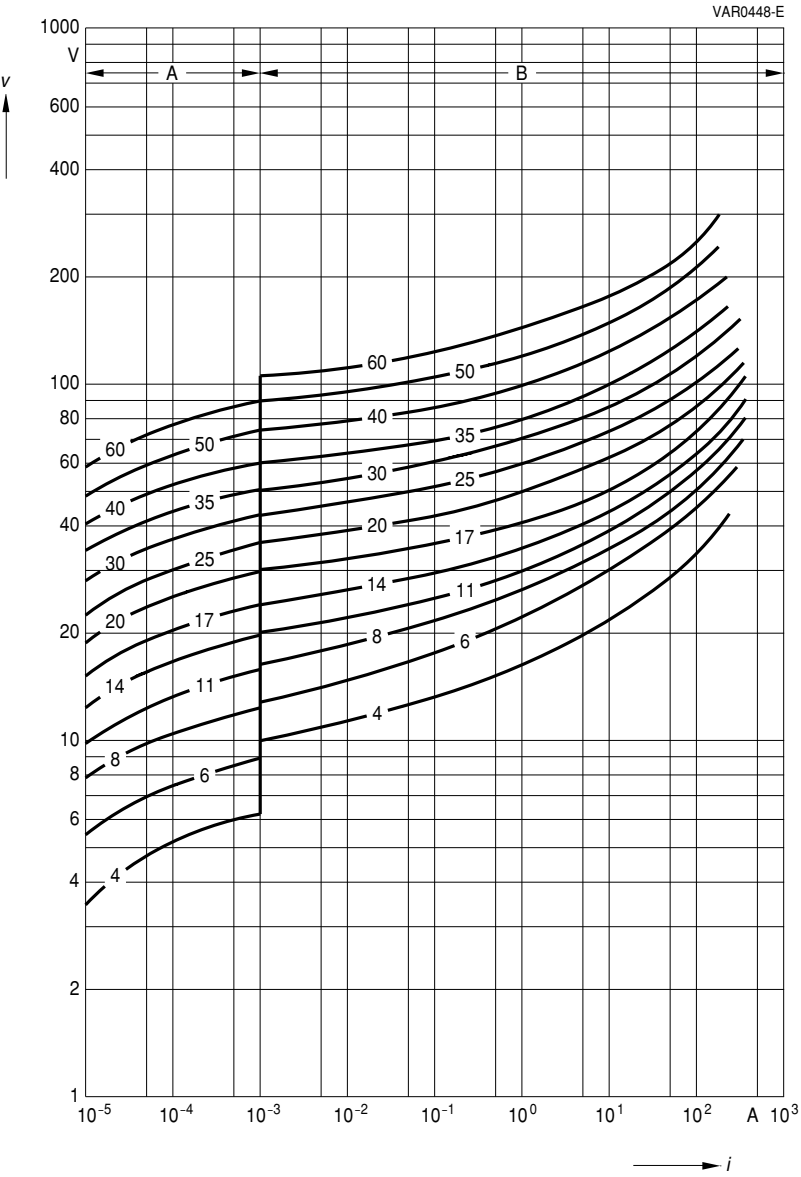


SIOV-CT/CN1206M4G … K60G

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

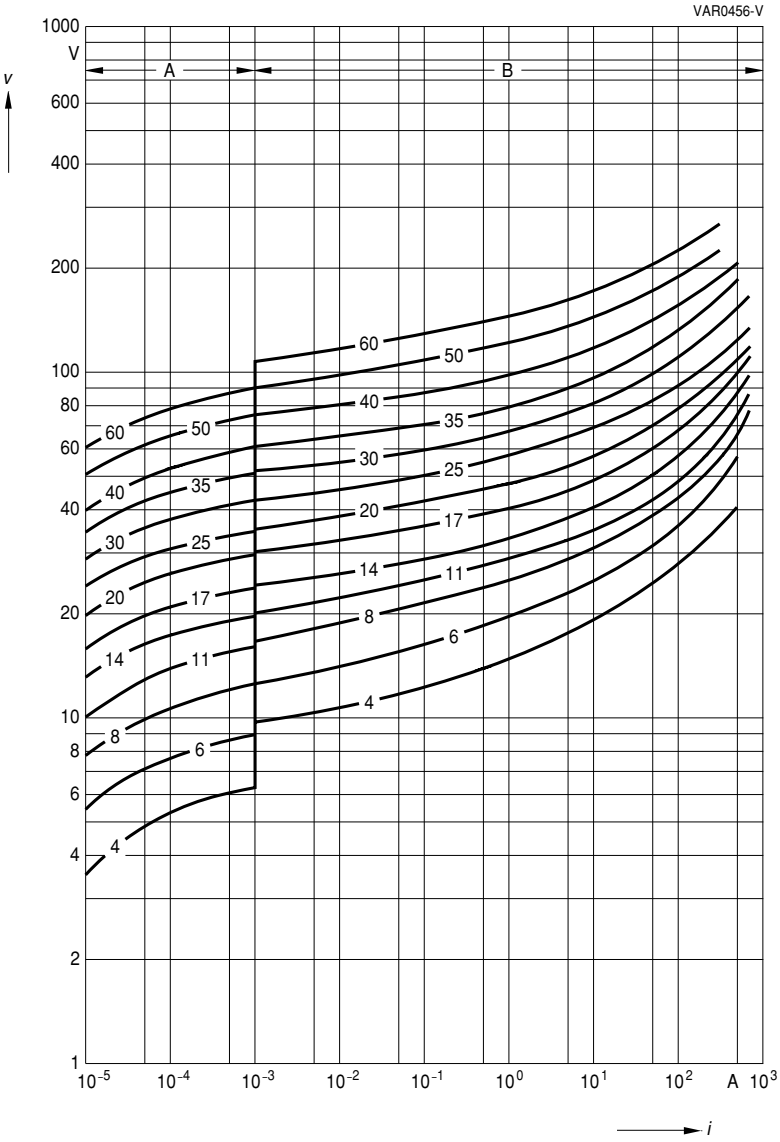


SIOV-CT/CN1210M4G … K60G

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

A = Leakage current
B = Protection level

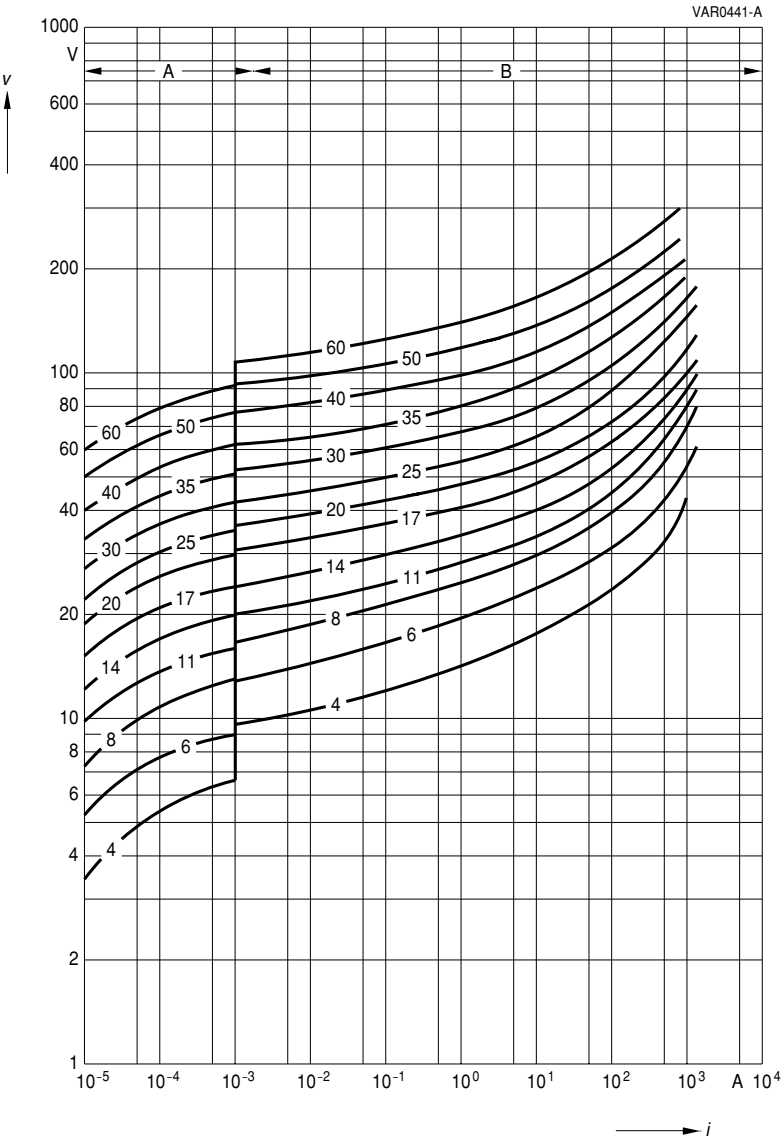
} for worst-case varistor tolerances



SIOV-CT/CN1812M4G … K60G
SHCV-SR1K20M … X/Z ≙ 1812

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

A = Leakage current
B = Protection level
} for worst-case varistor tolerances

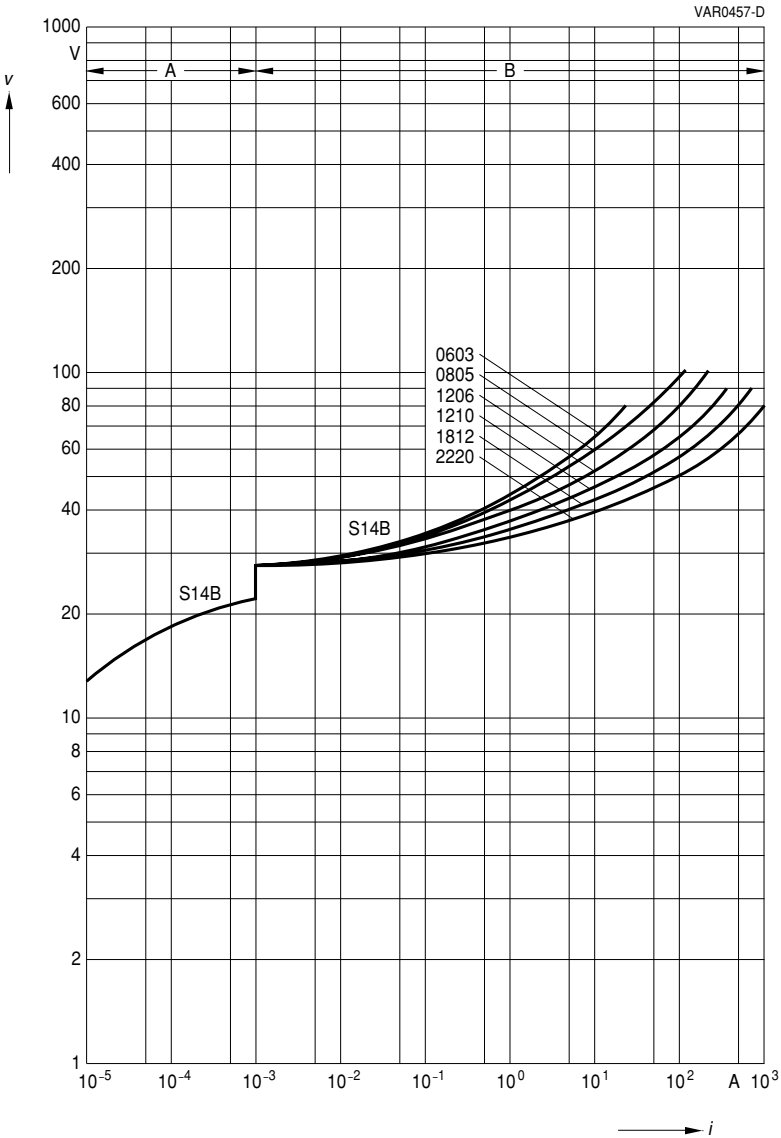


SIOV-CT/CN2220M4G … K60G
SIOV-CT/CN2220K25G … K30AUTO(E2)G(2)

SHCV-SR2K20M … X/Z ≙ 2220

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



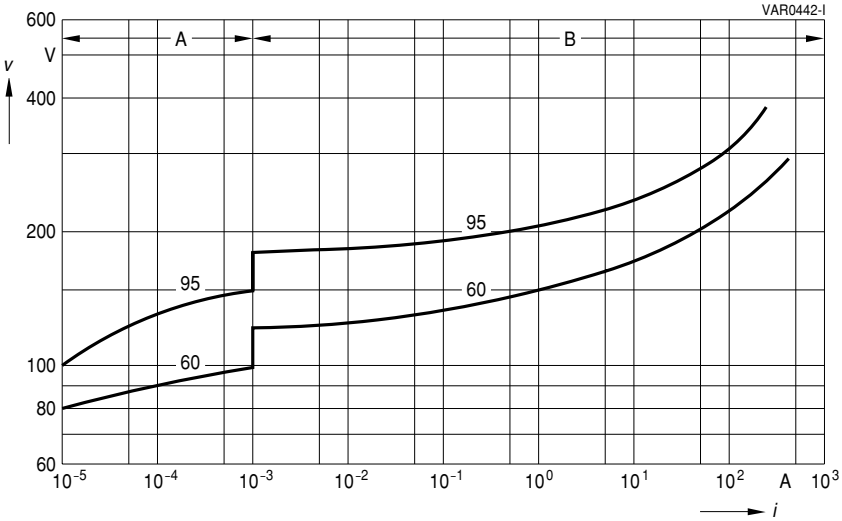
SIOV-CT/CN0603S14BAUTOG … 2220S14BAUTOG
SHCV-SR1S14B … X/Z ≙ 1812

SIOV-CN2220S14BAUTOE2G2
SHCV-SR2S14B … X/Z ≙ 2220

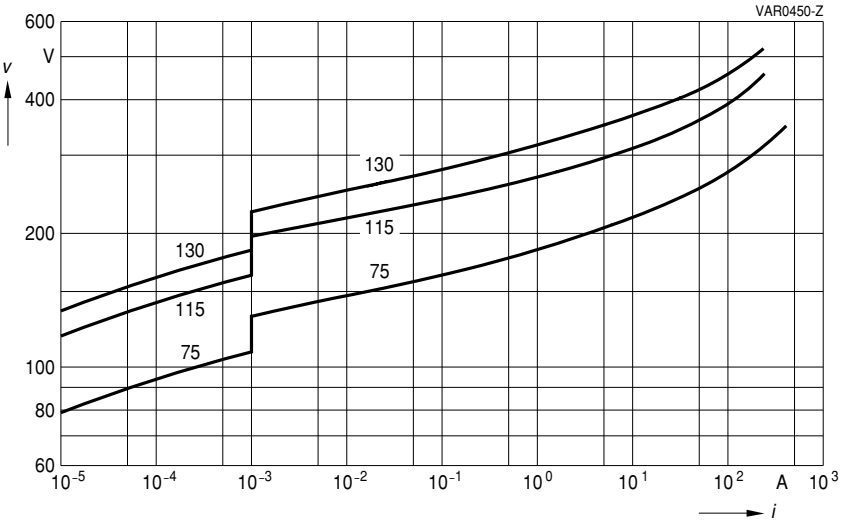
$v = f(i)$ – for explanation of the characteristics refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances



SIOV-CT/CN1812S60AG2 … S95AG2

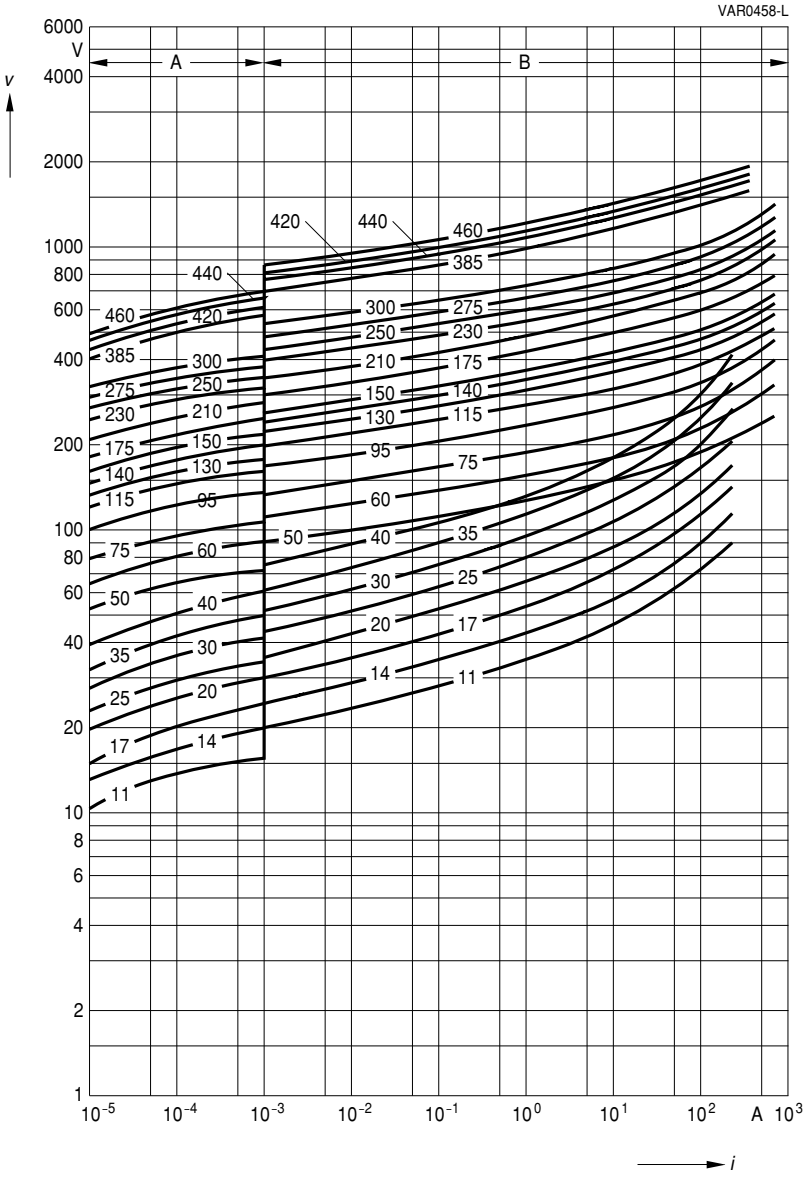


SIOV-CT/CN1812K75G2 … K130G2

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

A = Leakage current
B = Protection level

} for worst-case varistor tolerances

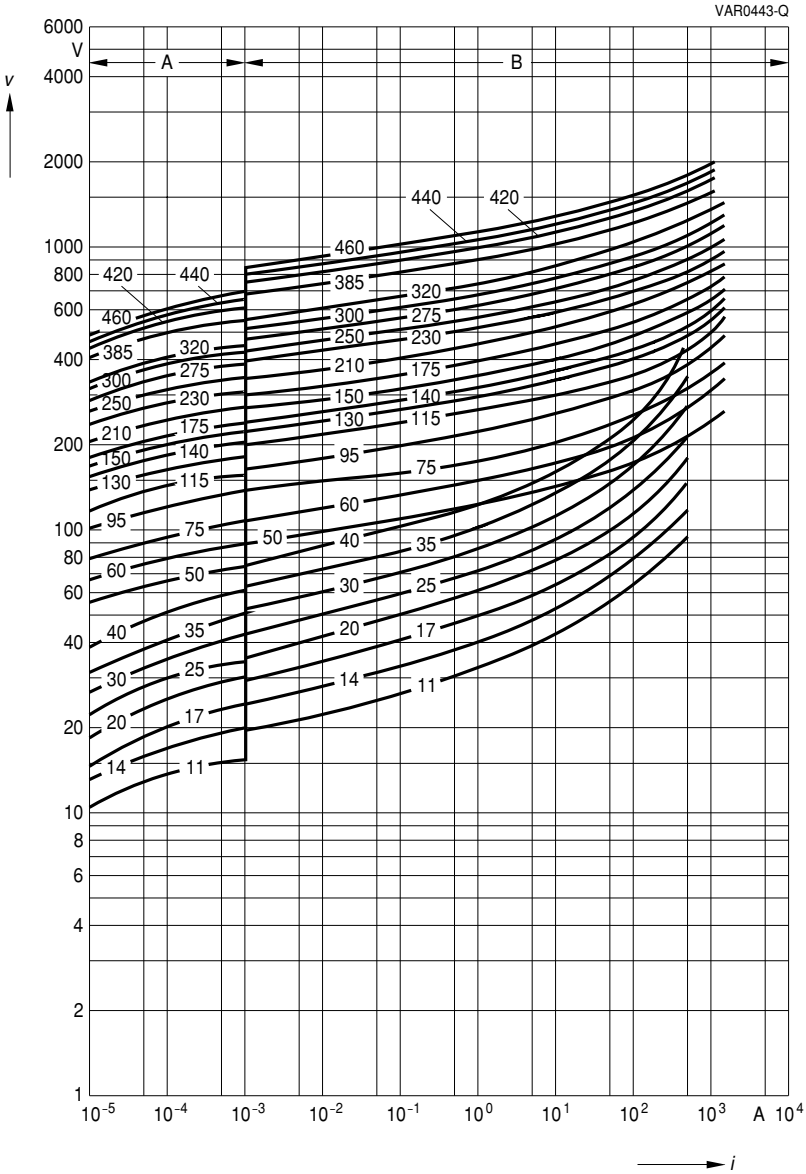


SIOV-S05 … (E2) **SIOV-CU3225 … (AUTO)G2**

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

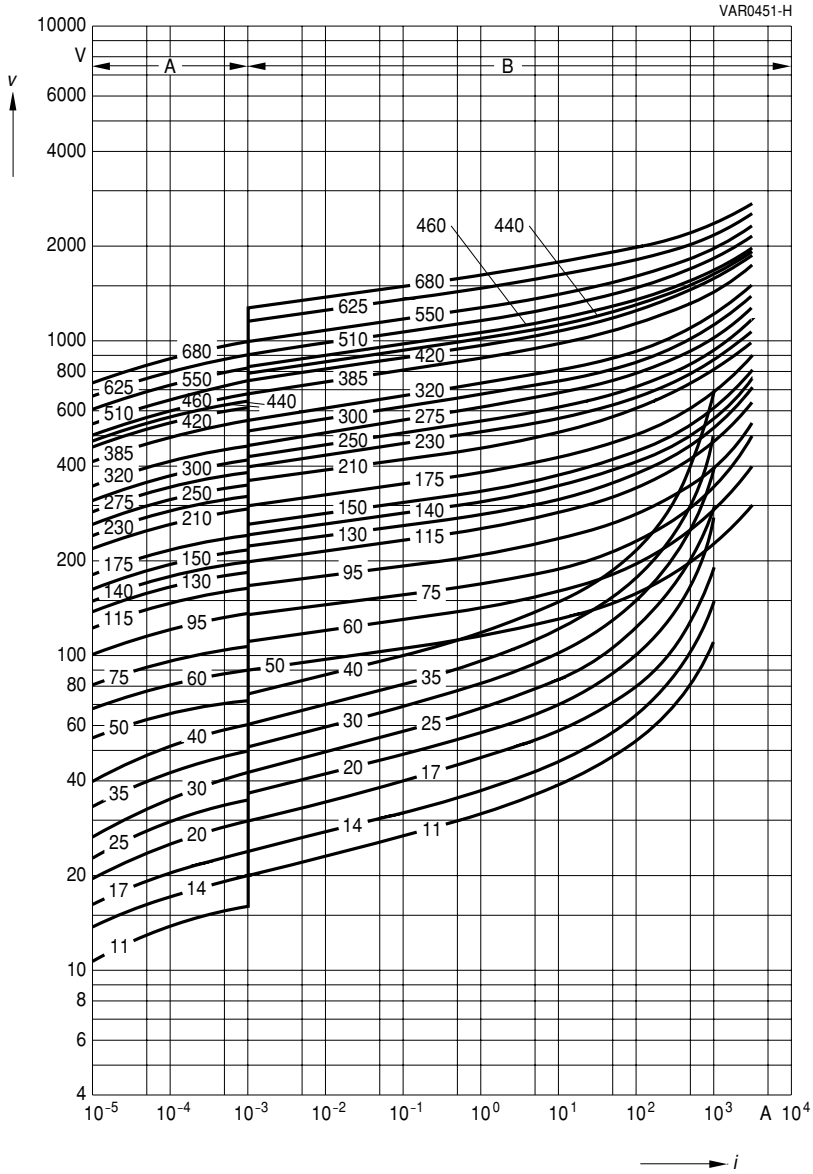


SIOV-S07 … (D1)(E2) **SIOV-CU4032 … (AUTO)G2**

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

A = Leakage current
B = Protection level

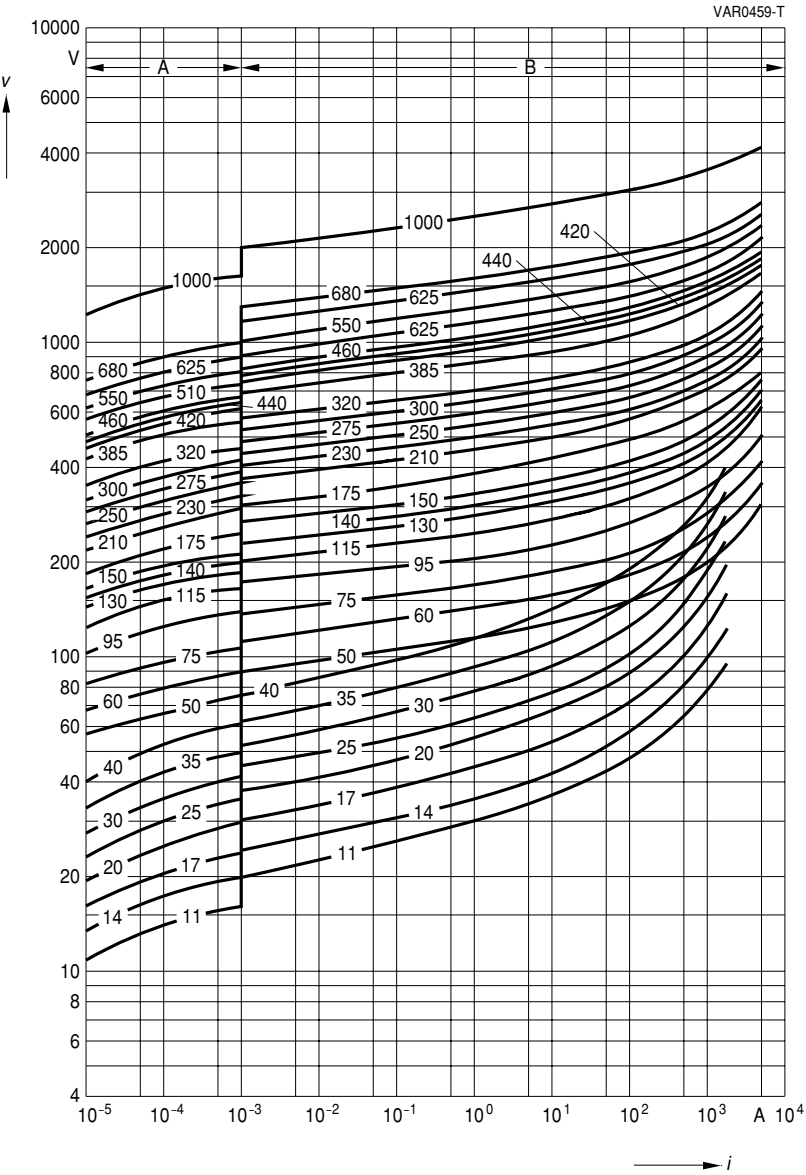
{ for worst-case varistor tolerances



SIOV-S10 … (AUTO)(D1)(E2)

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

A = Leakage current
B = Protection level
} for worst-case varistor tolerances

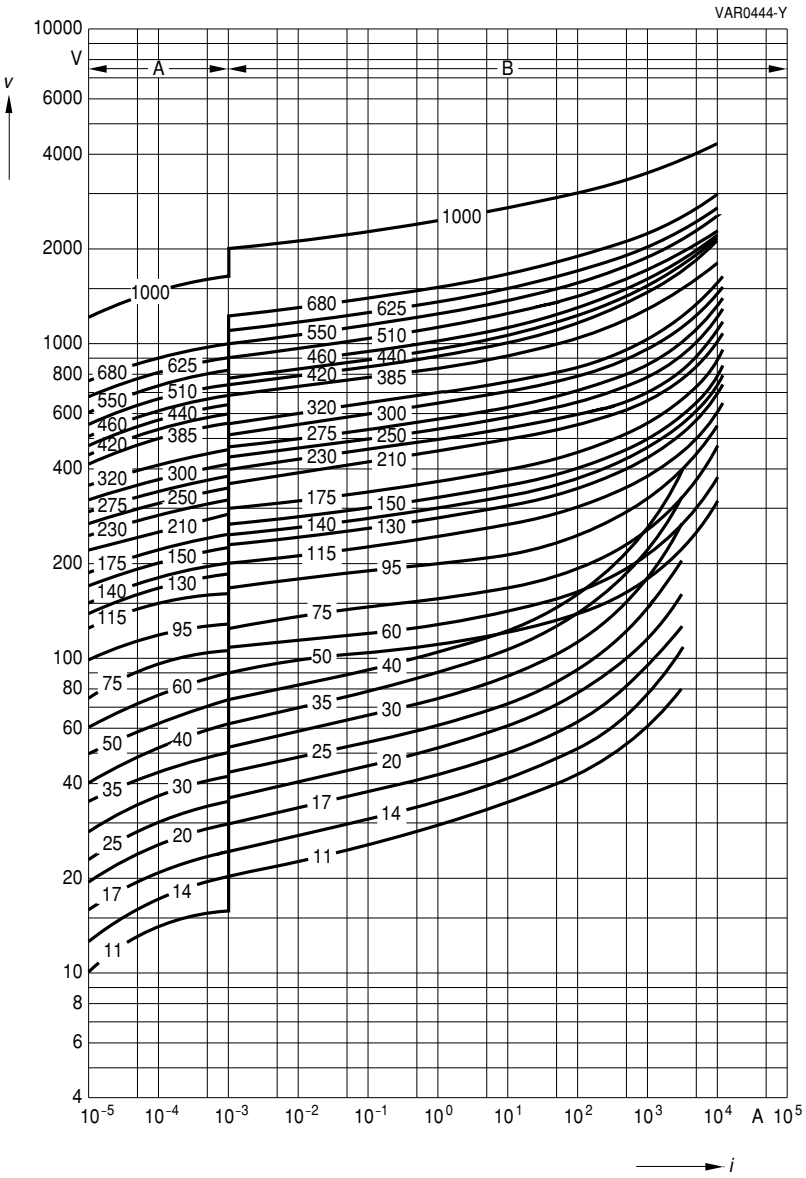


SIOV-S14 … (AUTO)(D1)(E2)

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

A = Leakage current
B = Protection level

} for worst-case varistor tolerances

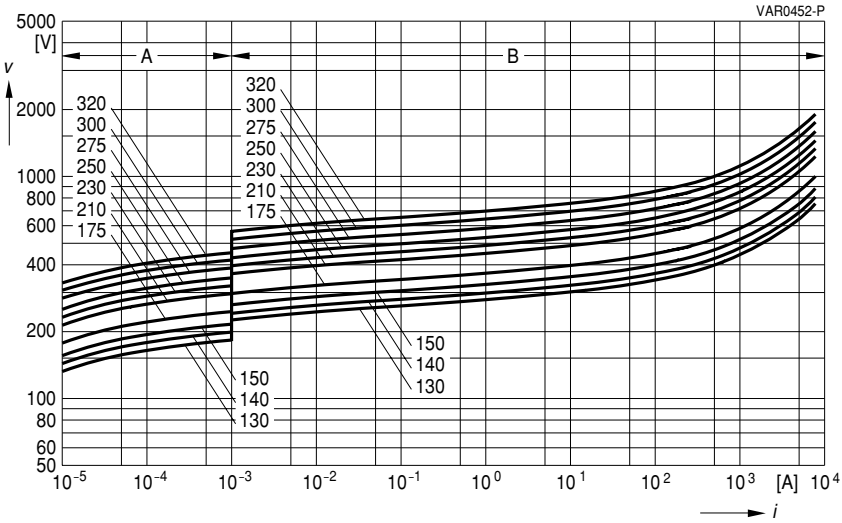


SIOV-S20 … (AUTO)(E2)(E3)

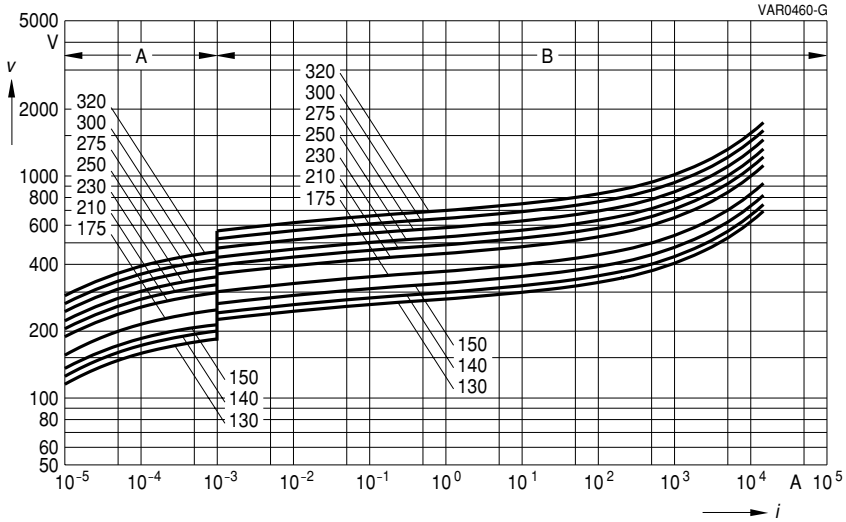
$v = f(i)$ – for explanation of the characteristics refer to section 1.6.3

A = Leakage current
B = Protection level

} for worst-case varistor tolerances



SIOV-Q14

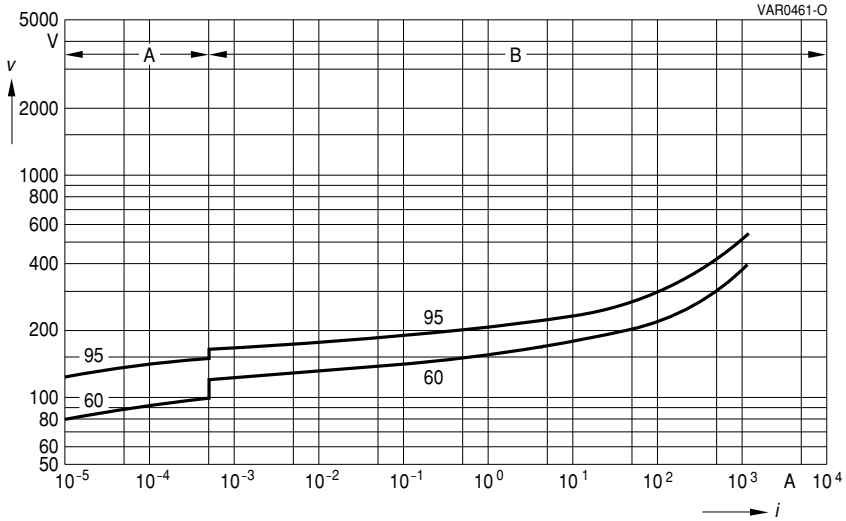


SIOV-Q20

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

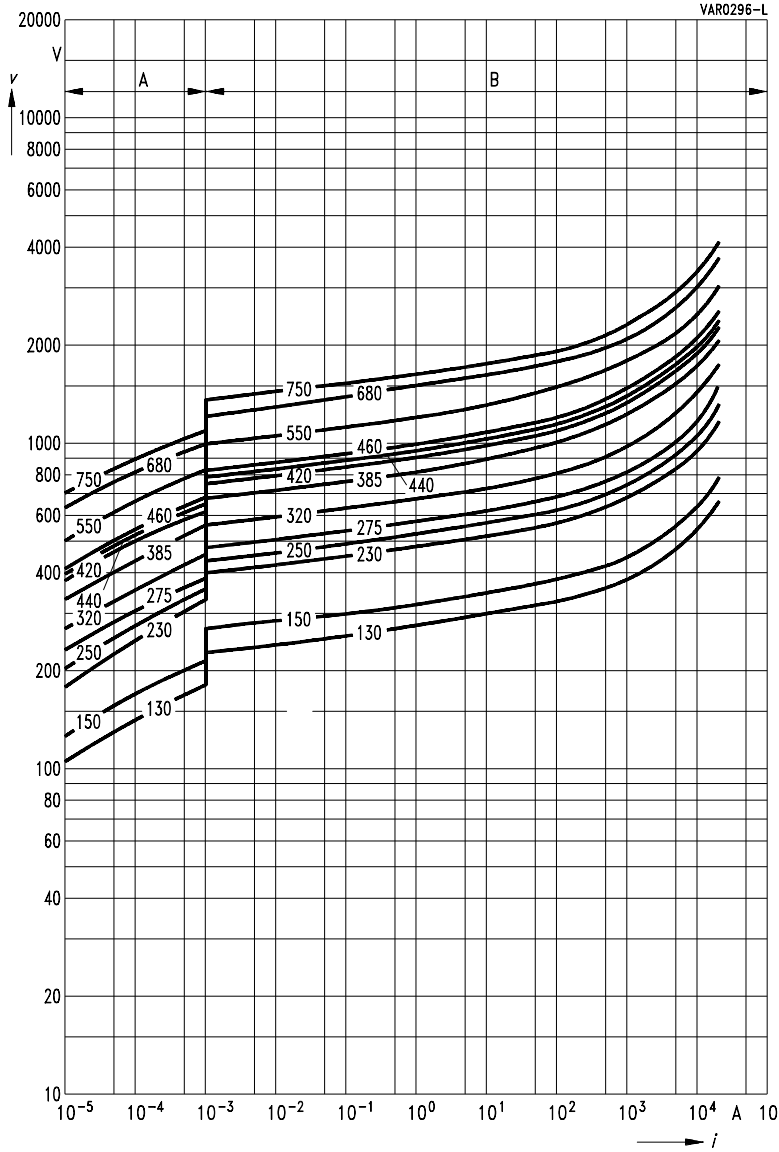


SIOV-S07S60A … S95AG2
SIOV-CU4032S60A … S95AG2

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

A = Leakage current
B = Protection level

} for worst-case varistor tolerances

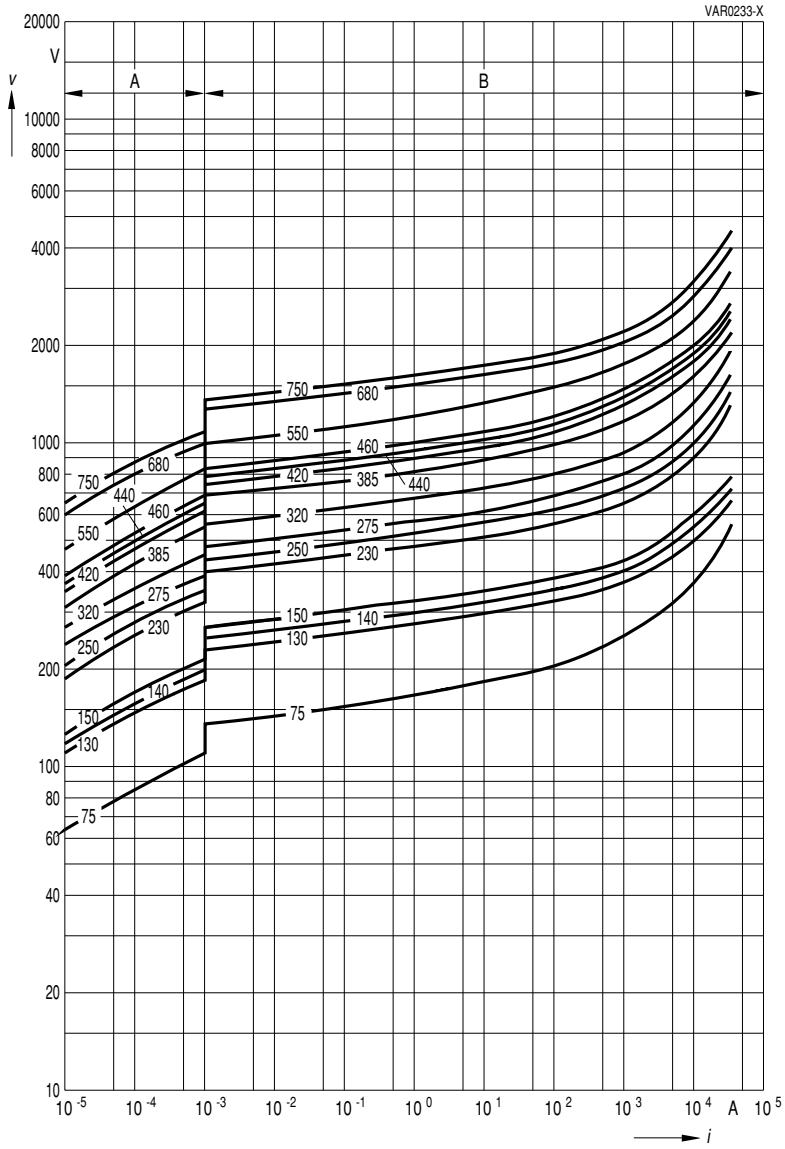


SIOV-B32K130 … K750

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

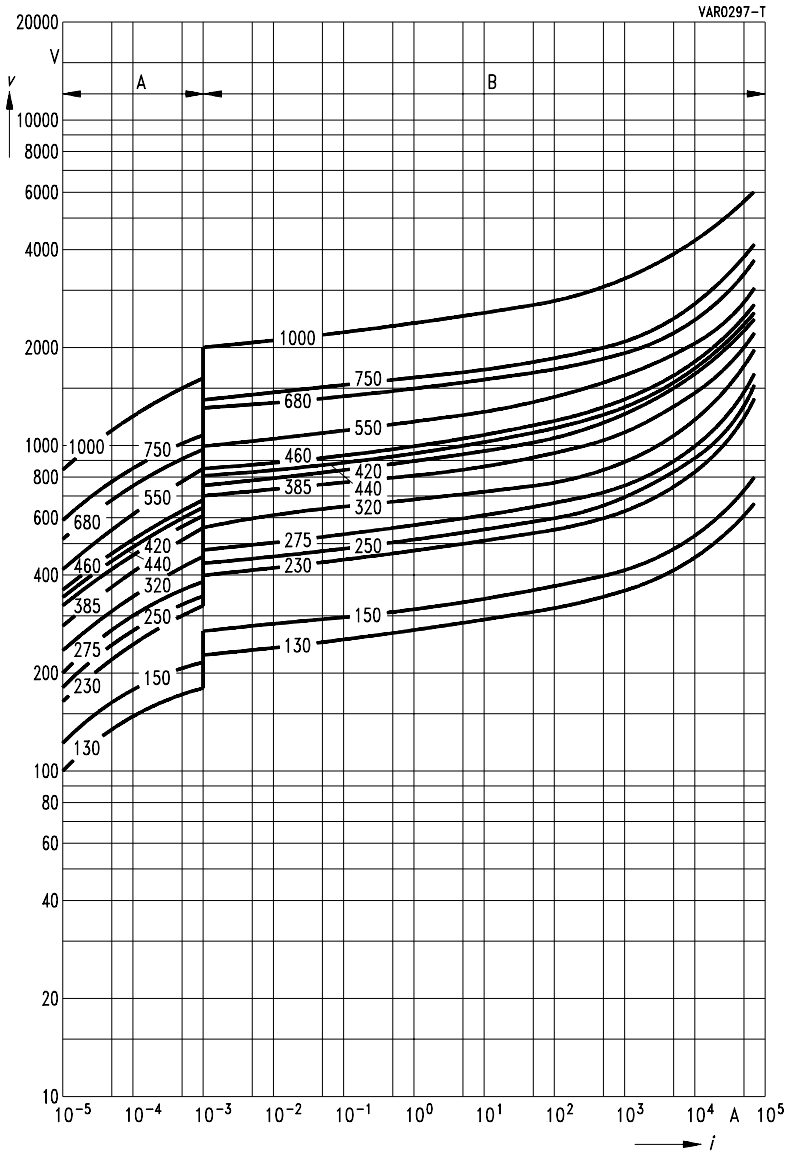


SIOV-B40K75 … K750 **SIOV-LS40K130QP … K750QP(K2)**

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

A = Leakage current
B = Protection level

} for worst-case varistor tolerances

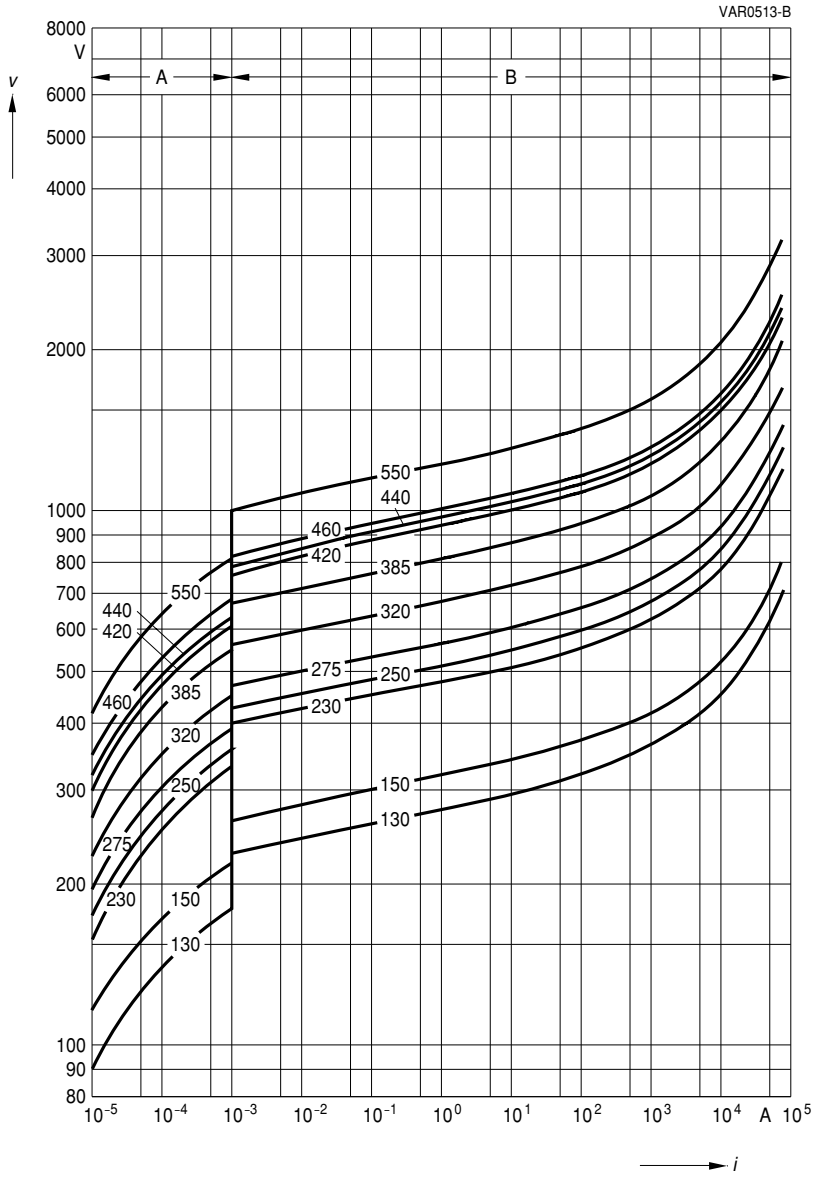


SIOV-B60K130 … K1000

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

A = Leakage current
B = Protection level

{ for worst-case varistor tolerances

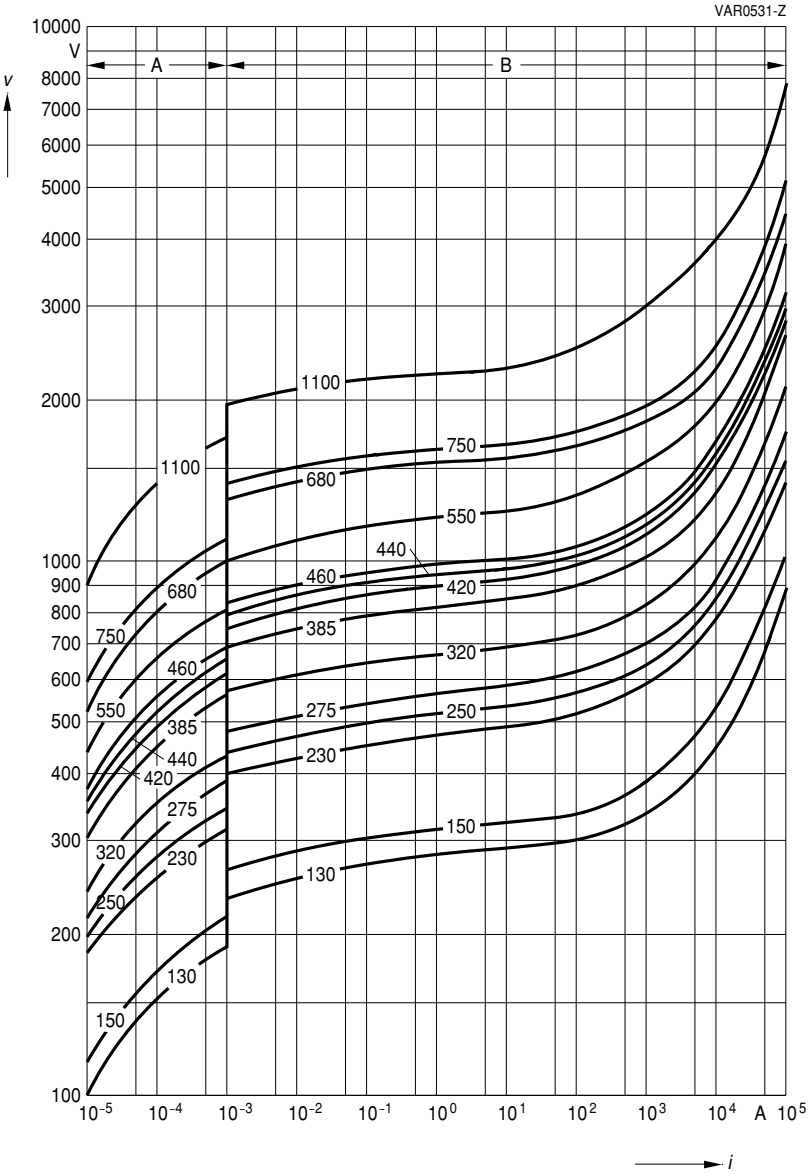


SIOV-LS50K130PK2 … K550PK2 **SIOV-LS50K130P … K550P**

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

A = Leakage current
B = Protection level

} for worst-case varistor tolerances



SIOV-B80K130 … K1100

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