

SIOV Metal Oxide Varistors

HighE Series

Block varistors

Construction

- Disk-shaped varistor element, potted in plastic housing
- Housing flame-retardant to UL 94 V-0
- Screw terminals M4 (SIOV-B32 ... 40)
Screw terminals M5 (SIOV-B60 ... 80)

Features

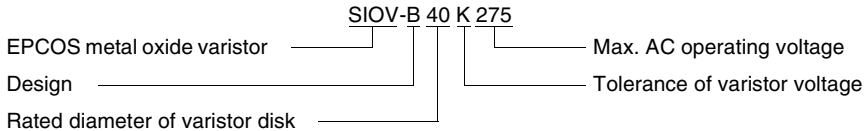
- Heavy-duty varistors (surge current capability up to 100 kA)
- Wide product range
- SIOV-B40 also available without housing (LS40 series)
- PSpice models

Approvals

- UL
- CSA ($\geq$ K130)
- SEV (except SIOV-B80)

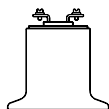
Type designation

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 ... + 110 °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	
Max. torque		
B32/B40	1,0 Nm	
B60/B80	2,5 Nm	



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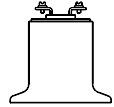
Maximum ratings ($T_A = 85^\circ\text{C}$)

Type	Ordering code	V_{RMS}	V_{DC}	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
SIOV-	NEW	V	V			
B40K75	B72240-B750-K1	75	100	25000	190	1,4
B32K130	B72232-B131-K1	130	170	25000	210	1,2
B40K130	B72240-B131-K1	130	170	40000	310	1,4
B60K130	B72260-B131-K1	130	170	70000	490	1,6
B80K130	B72280-B131-K1	130	170	100000	660	2,0
B32K150	B72232-B151-K1	150	200	25000	240	1,2
B40K150	B72240-B151-K1	150	200	40000	360	1,4
B60K150	B72260-B151-K1	150	200	70000	570	1,6
B80K150	B72280-B151-K1	150	200	100000	800	2,0
B32K230	B72232-B231-K1	230	300	25000	300	1,2
B40K230	B72240-B231-K1	230	300	40000	460	1,4
B60K230	B72260-B231-K1	230	300	70000	730	1,6
B80K230	B72280-B231-K1	230	300	100000	1200	2,0
B32K250	B72232-B251-K1	250	320	25000	330	1,2
B40K250	B72240-B251-K1	250	320	40000	490	1,4
B60K250	B72260-B251-K1	250	320	70000	800	1,6
B80K250	B72280-B251-K1	250	320	100000	1300	2,0
B32K275	B72232-B271-K1	275	350	25000	360	1,2
B40K275	B72240-B271-K1	275	350	40000	550	1,4
B60K275	B72260-B271-K1	275	350	70000	860	1,6
B80K275	B72280-B271-K1	275	350	100000	1400	2,0
B32K320	B72232-B321-K1	320	420	25000	430	1,2
B40K320	B72240-B321-K1	320	420	40000	640	1,4
B60K320	B72260-B321-K1	320	420	70000	1000	1,6
B80K320	B72280-B321-K1	320	420	100000	1600	2,0
B32K385	B72232-B381-K1	385	505	25000	550	1,2
B40K385	B72240-B381-K1	385	505	40000	800	1,4
B60K385	B72260-B381-K1	385	505	70000	1200	1,6
B80K385	B72280-B381-K1	385	505	100000	2000	2,0

Upon request are available the varistor elements without plastic housing suitable for soldering.

Designations: SIOV-D32K ... K6 SIOV-D60K ... K6
 SIOV-D40K ... QK6 SIOV-D80K ... K6

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

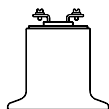


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Block Varistors

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

Type	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			
SIOV-							
B40K75	120	± 10	220	300	11000	263	286
B32K130	205	± 10	340	200	4400	263	285
B40K130	205	± 10	340	300	5600	264	286
B60K130	205	± 10	340	500	15000	266	287
B80K130	205	± 10	340	800	28000	268	289
B32K150	240	± 10	395	200	3700	263	285
B40K150	240	± 10	395	300	4800	264	286
B60K150	240	± 10	395	500	12000	266	287
B80K150	240	± 10	395	800	23000	268	289
B32K230	360	± 10	595	200	2500	263	285
B40K230	360	± 10	595	300	3200	265	286
B60K230	360	± 10	595	500	7900	267	287
B80K230	360	± 10	595	800	16000	268	289
B32K250	390	± 10	650	200	2200	263	285
B40K250	390	± 10	650	300	2900	265	286
B60K250	390	± 10	650	500	7100	267	287
B80K250	390	± 10	650	800	14000	268	289
B32K275	430	± 10	710	200	2000	263	285
B40K275	430	± 10	710	300	2700	265	286
B60K275	430	± 10	710	500	6600	267	287
B80K275	430	± 10	710	800	13000	268	289
B32K320	510	± 10	840	200	1700	263	285
B40K320	510	± 10	840	300	2300	265	286
B60K320	510	± 10	840	500	5600	267	287
B80K320	510	± 10	840	800	11000	268	289
B32K385	620	± 10	1025	200	1400	263	285
B40K385	620	± 10	1025	300	1900	265	286
B60K385	620	± 10	1025	500	4600	267	287
B80K385	620	± 10	1025	800	9000	268	289



SIOV Metal Oxide Varistors

Block Varistors

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

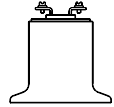
Type	Ordering code	V_{RMS} V	V_{DC} V	i_{max} 8/20 μs A	W_{max} (2 ms) J	P_{max} W
SIOV-	NEW					
B32K420	B72232-B421-K1	420	560	25000	600	1,2
B40K420	B72240-B421-K1	420	560	40000	910	1,4
B60K420	B72260-B421-K1	420	560	70000	1500	1,6
B80K420	B72280-B421-K1	420	560	100000	2200	2,0
B32K440	B72232-B441-K1	440	585	25000	630	1,2
B40K440	B72240-B441-K1	440	585	40000	950	1,4
B60K440	B72260-B441-K1	440	585	70000	1580	1,6
B80K440	B72280-B441-K1	440	585	100000	2350	2,0
B32K460	B72232-B461-K1	460	615	25000	660	1,2
B40K460	B72240-B461-K1	460	615	40000	1000	1,4
B60K460	B72260-B461-K1	460	615	70000	1650	1,6
B80K460	B72280-B461-K1	460	615	100000	2500	2,0
B32K550	B72232-B551-K1	550	745	25000	620	1,2
B40K550	B72240-B551-K1	550	745	40000	960	1,4
B60K550	B72260-B551-K1	550	745	70000	1500	1,6
B80K550	B72280-B551-K1	550	745	100000	3100	2,0
B32K680	B72232-B681-K1	680	895	25000	760	1,2
B40K680	B72240-B681-K1	680	895	40000	1100	1,4
B60K680	B72260-B681-K1	680	895	70000	1800	1,6
B80K680	B72280-B681-K1	680	895	100000	3600	2,0
B32K750	B72232-B751-K1	750	970	25000	800	1,2
B40K750	B72240-B751-K1	750	970	40000	1200	1,4
B60K750	B72260-B751-K1	750	970	70000	2000	1,6
B80K750	B72280-B751-K1	750	970	100000	4000	2,0
B60K1000 ¹⁾	B72260-B102-K1	1100	1465	70000	3000	1,6
B80K1100	B72280-B112-K1	1100	1465	100000	6000	2,0

Upon request are available the varistor elements without plastic housing suitable for soldering.

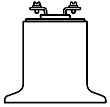
Designations: SIOV-D32K ... K6 SIOV-D60K ... K6
 SIOV-D40K ... QK6 SIOV-D80K ... K6

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

1) Operating voltage differs from type designation


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

Type	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			
SIOV-							
B32K420	680	± 10	1120	200	1300	263	285
B40K420	680	± 10	1120	300	1800	265	286
B60K420	680	± 10	1120	500	4300	267	287
B80K420	680	± 10	1120	800	8500	268	289
B32K440	715	± 10	1180	200	1250	263	285
B40K440	715	± 10	1180	300	1700	265	286
B60K440	715	± 10	1180	500	4100	267	287
B80K440	715	± 10	1180	800	8100	268	289
B32K460	750	± 10	1240	200	1200	263	285
B40K460	750	± 10	1240	300	1600	265	286
B60K460	750	± 10	1240	500	3900	267	287
B80K460	750	± 10	1240	800	7700	268	289
B32K550	910	± 10	1500	200	1000	264	285
B40K550	910	± 10	1500	300	1400	265	286
B60K550	910	± 10	1500	500	3300	267	287
B80K550	910	± 10	1500	800	6500	268	289
B32K680	1100	± 10	1815	200	830	264	285
B40K680	1100	± 10	1815	300	1100	265	286
B60K680	1100	± 10	1815	500	2600	267	287
B80K680	1100	± 10	1815	800	5200	268	289
B32K750	1200	± 10	2000	200	800	264	285
B40K750	1200	± 10	2000	300	1000	265	286
B60K750	1200	± 10	2000	500	2400	267	287
B80K750	1200	± 10	2000	800	4800	268	289
B60K1000	1800	± 10	2970	500	1600	267	287
B80K1100	1800	± 10	2970	800	3200	268	289

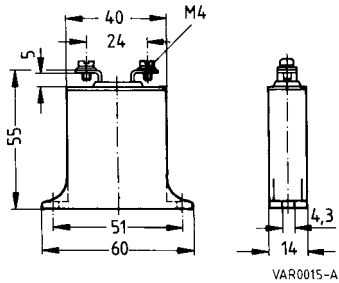


SIOV Metal Oxide Varistors

Block Varistors

Dimensions

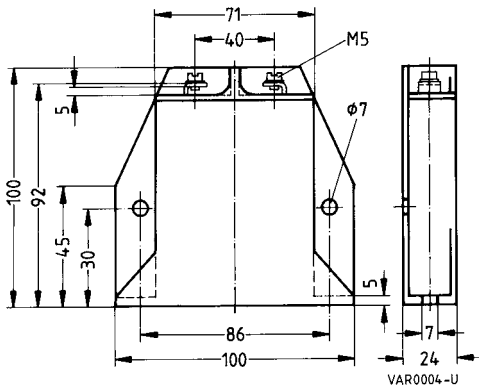
SIOV-B32/-B40



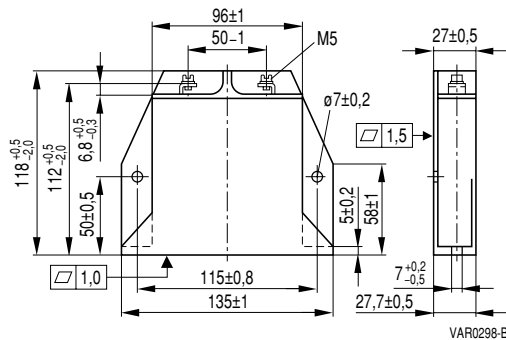
Weight

Size	approx.
B32	45 g
B40	50 g
B60	250 g
B80	650 g

SIOV-B60



SIOV-B80



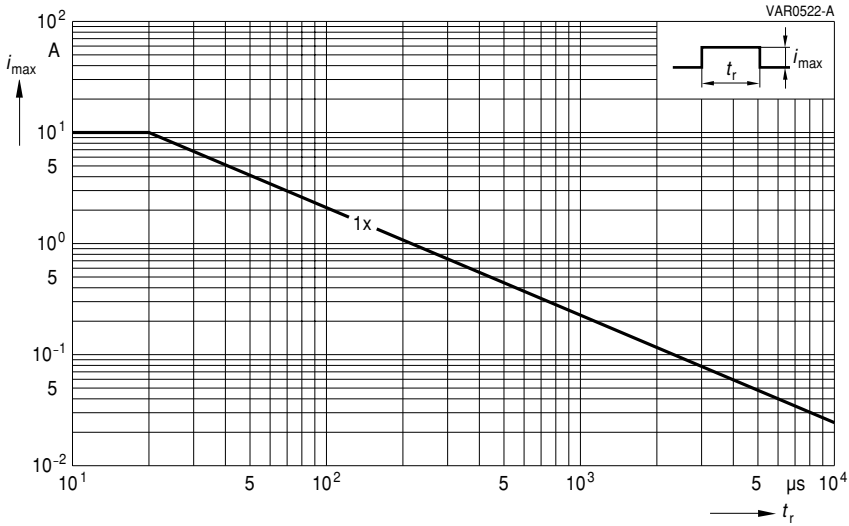
Dimensions in mm

SIOV Metal Oxide Varistors

Derating Curves

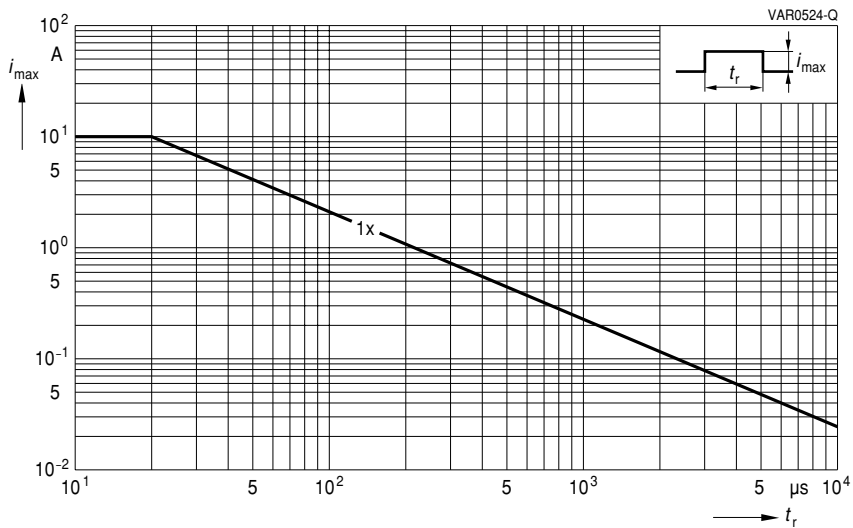
Maximum surge current

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



SIOV-CT/CN0402L14G(K2)

SIOV-CT/CN0603K17LCG



SIOV-CA05P4S17ALCGK2

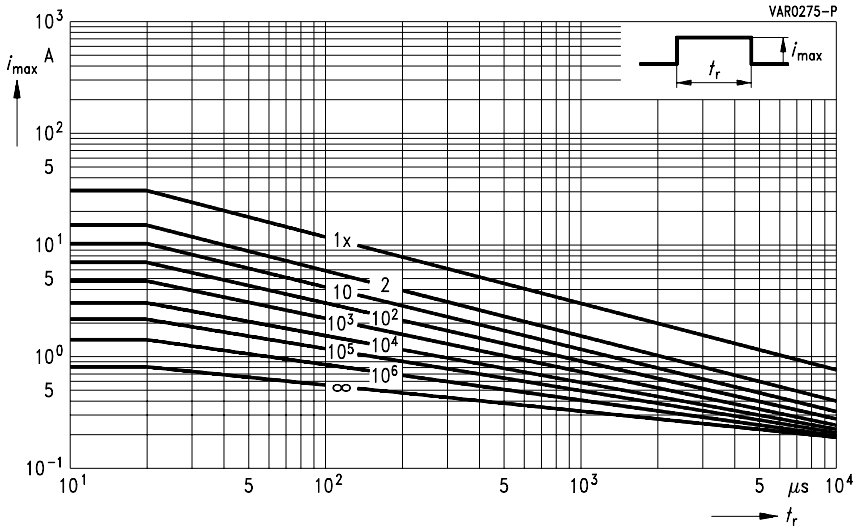
SIOV-CA04P2S17ALCGK2

SIOV Metal Oxide Varistors

Derating Curves

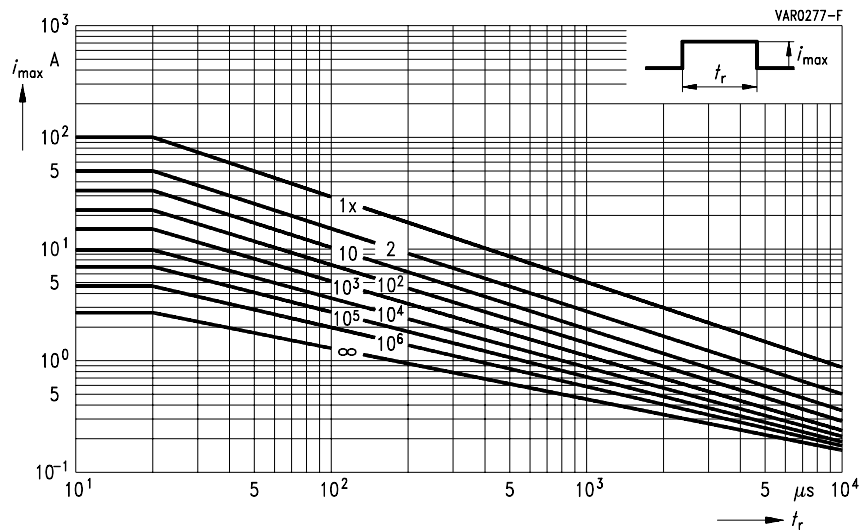
Maximum surge current

$i_{\max} = f(t_r)$, 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

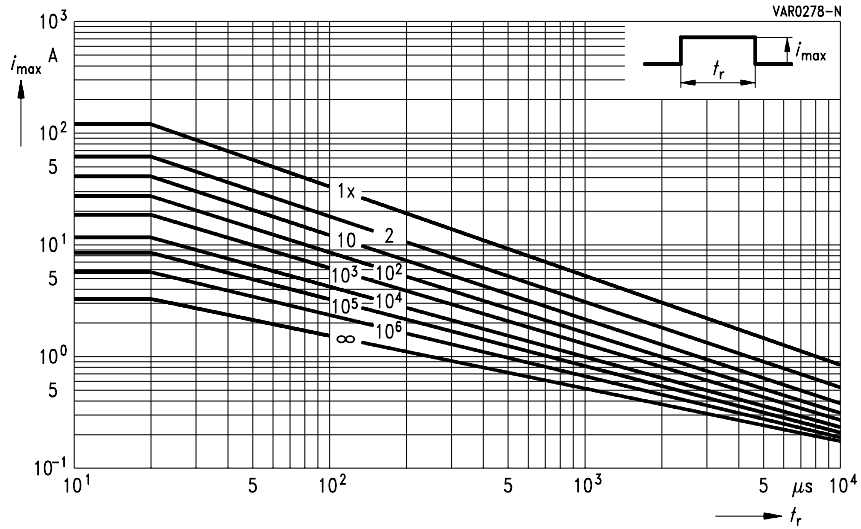
SIOV-CT/CN1206K35G ... K60G

SIOV Metal Oxide Varistors

Derating Curves

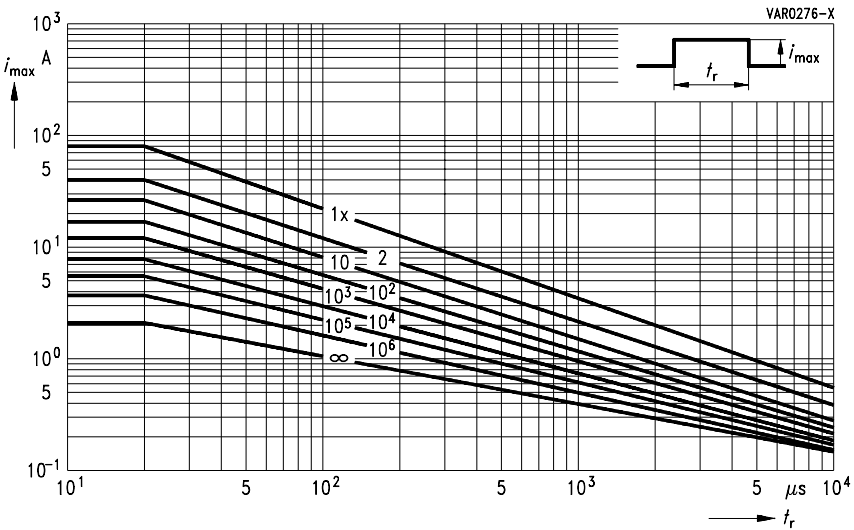
Maximum surge current

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



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

SIOV-CT/CN0805M6CCG



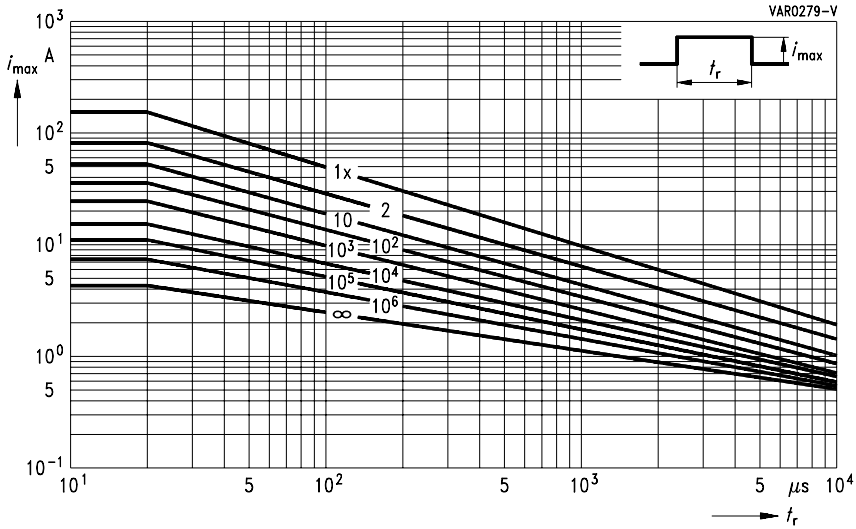
SIOV-CT/CN0805K20G ... K30G

SIOV Metal Oxide Varistors

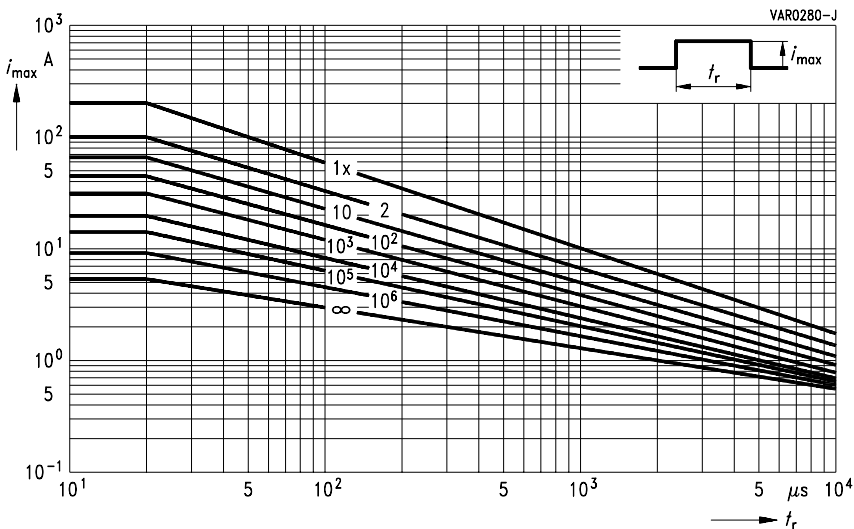
Derating Curves

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

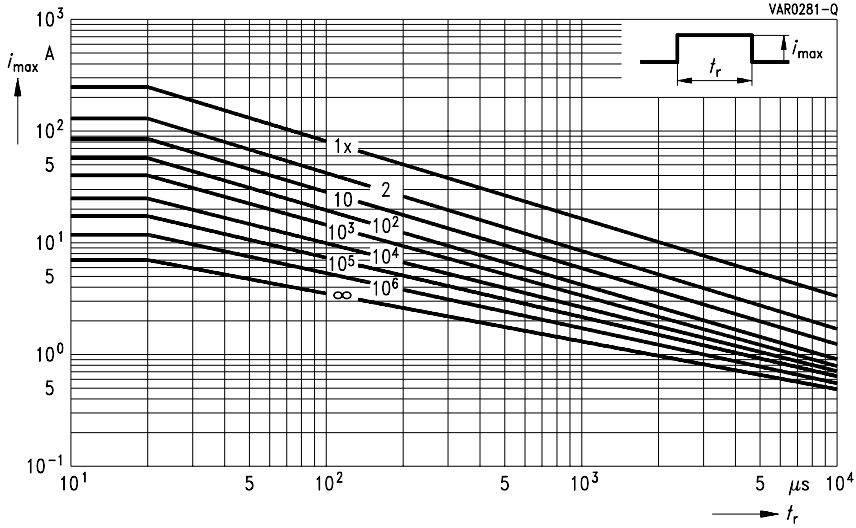
SIOV-CT/CN1206S14BAUTOG

SIOV Metal Oxide Varistors

Derating Curves

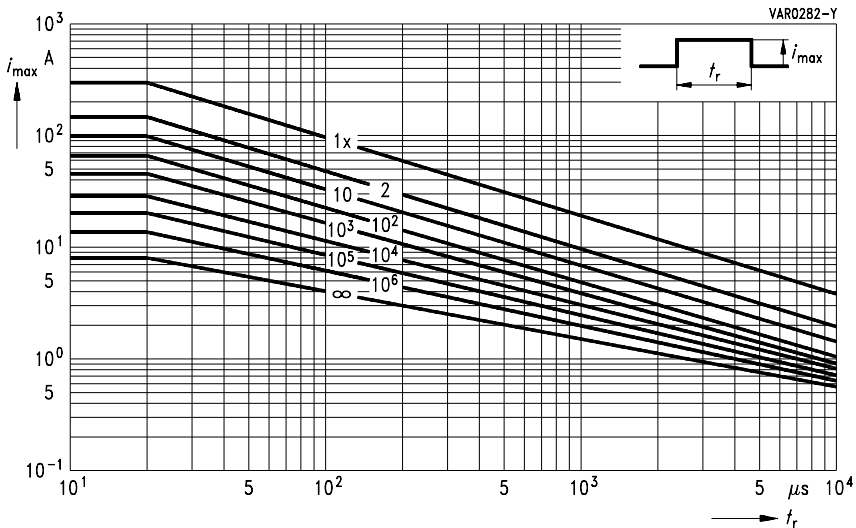
Maximum surge current

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



SIOV-CT/CN1210M4G

SIOV-CT/CN1210K35G ... K40G



SIOV-CT/CN1210M6G

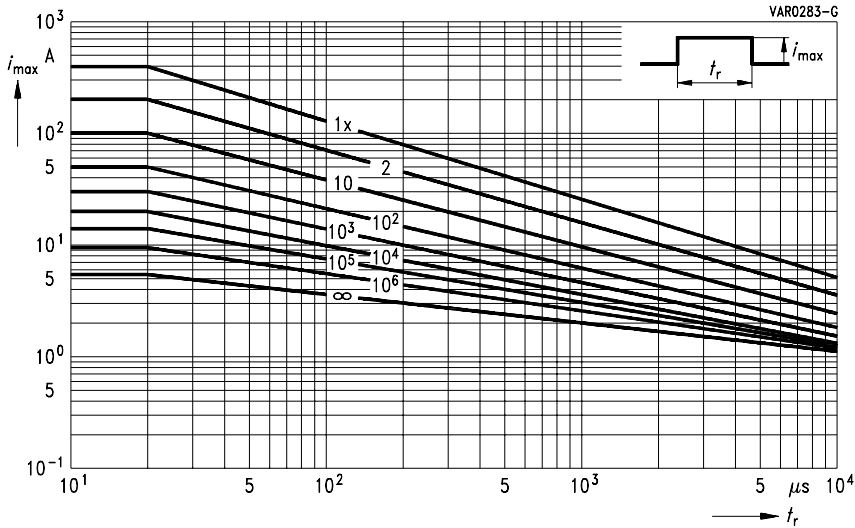
SIOV-CT/CN1210K25G ... K30G

SIOV Metal Oxide Varistors

Derating Curves

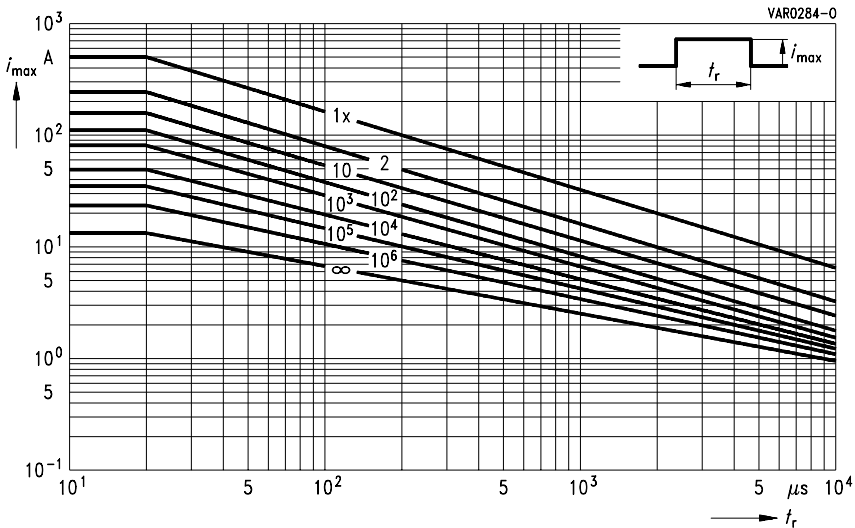
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – 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

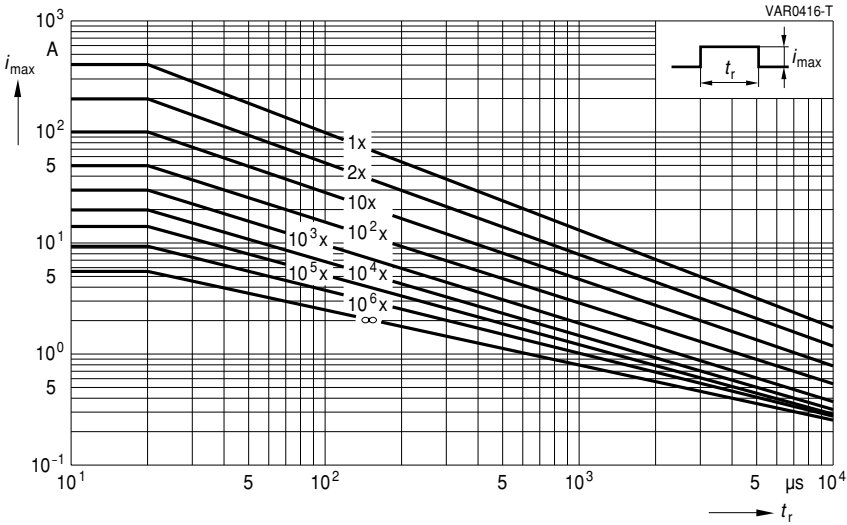
SIOV-CT/CN1812K35G ... K40G

SIOV Metal Oxide Varistors

Derating Curves

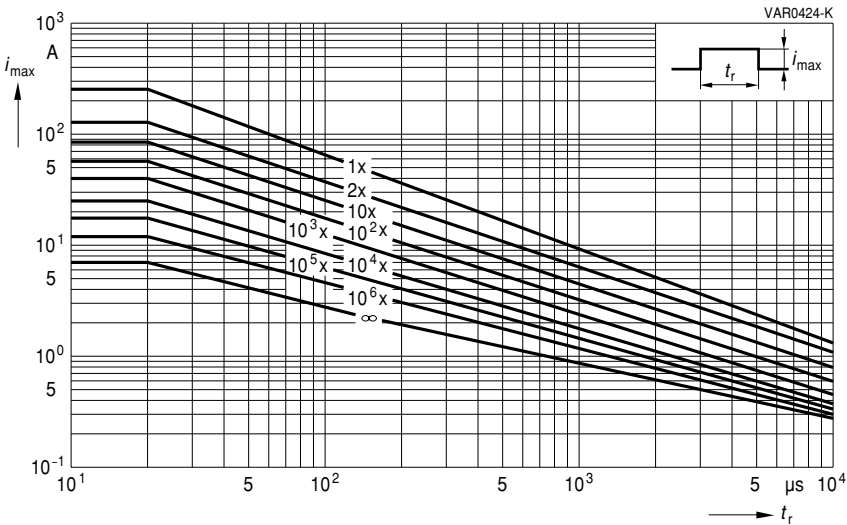
Maximum surge current

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



SIOV-CT/CN1812S60AG2

SIOV-CT/CN1812K75TELEG2



SIOV-CT/CN1812S95AG2

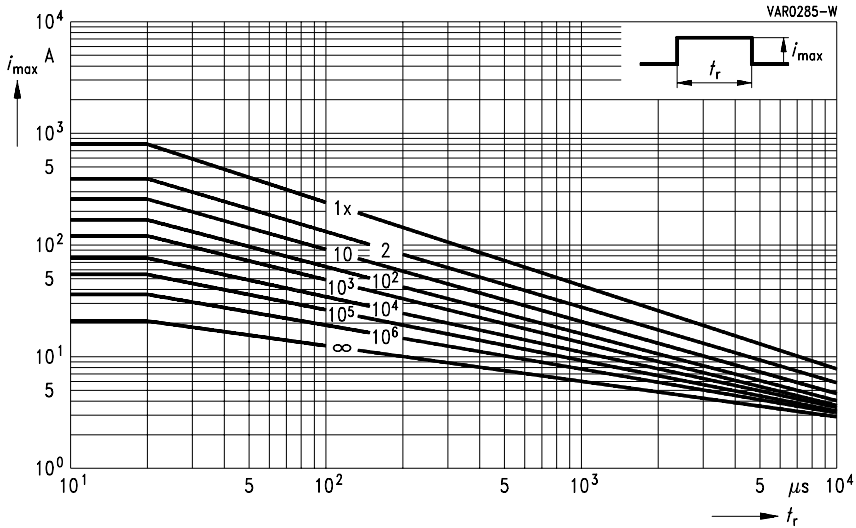
SIOV-CT/CN1812K115 ... K130TELEG2

SIOV Metal Oxide Varistors

Derating Curves

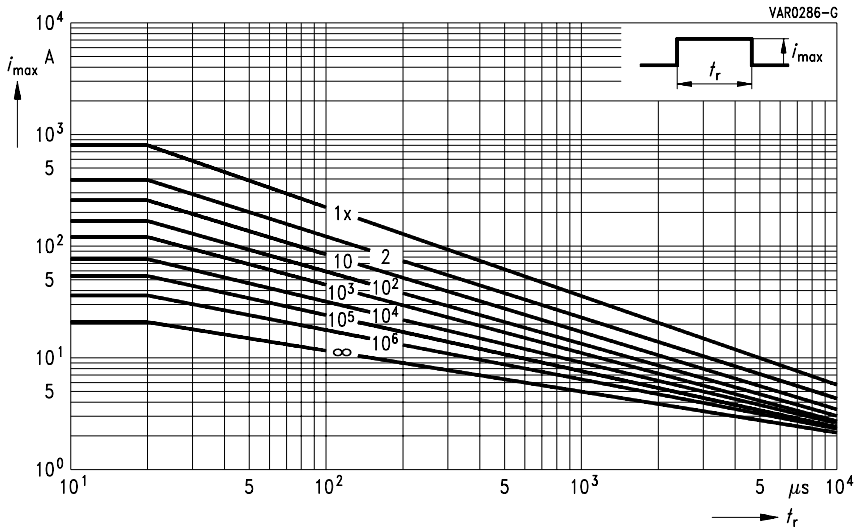
Maximum surge current

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



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

SHCV-SR1 ... X/Z



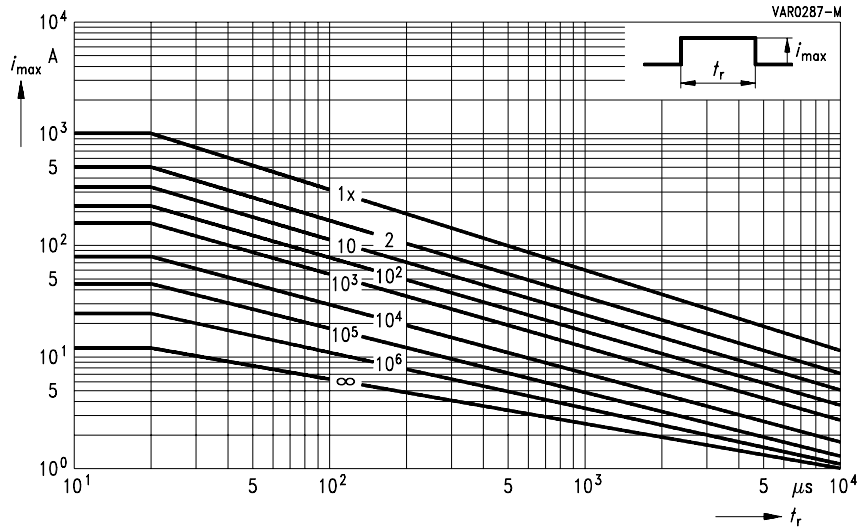
SIOV-CT/CN2220K50G ... K60G

SIOV Metal Oxide Varistors

Derating Curves

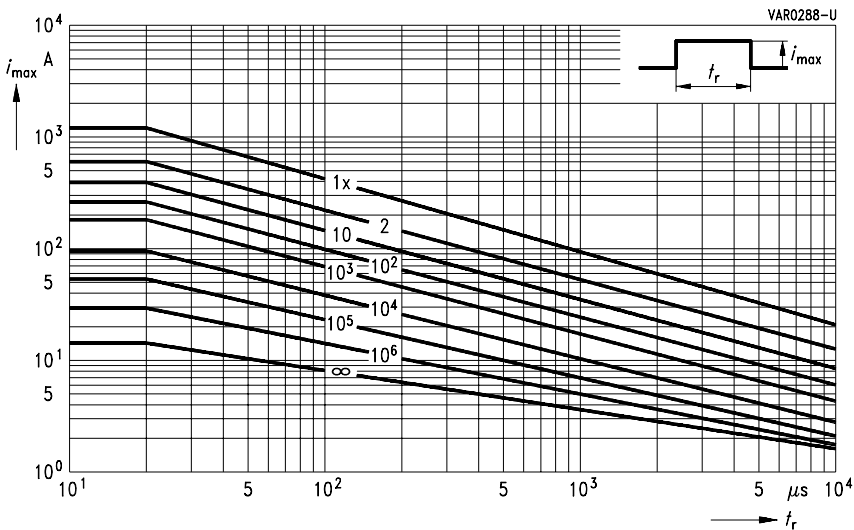
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – 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

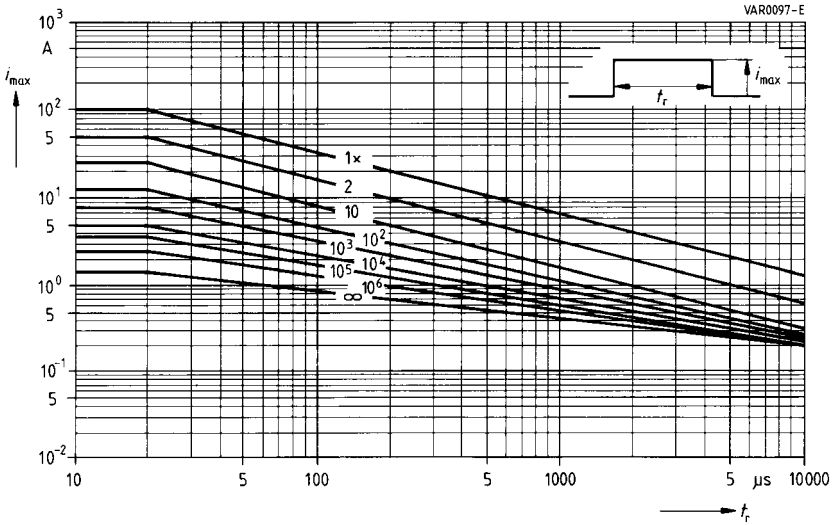
SIOV-CT/CN2220 ... AUTO(E2)G(2)

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

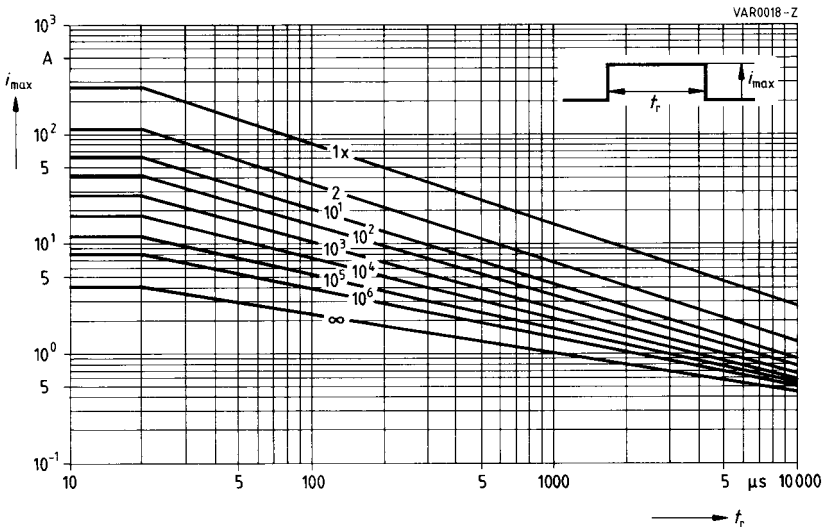
$i_{\max} = f(t_r, \text{pulse train})$ – for explanation of the derating curves [refer to section 1.8.1](#)



SIOV-S05K11 ... K40

SIOV-CU3225K11G2 ... K40G2

SIOV-CU3225K14AUTOG2 ... K30AUTOG2



SIOV-S07K11 ... K40

SIOV-CU4032K11G2 ... K40G2

SIOV-S07K14AUTOS2D1

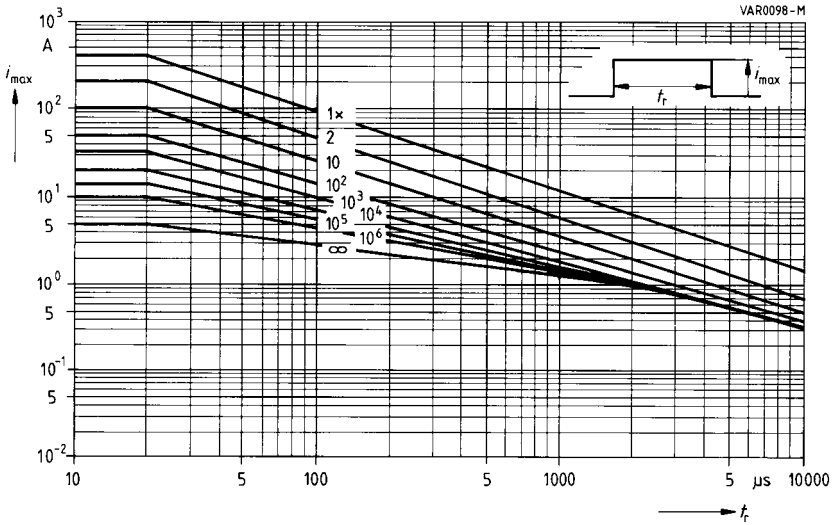
SIOV-CU4032K14AUTOG2 ... K30AUTOG2

SIOV Metal Oxide Varistors

Derating Curves

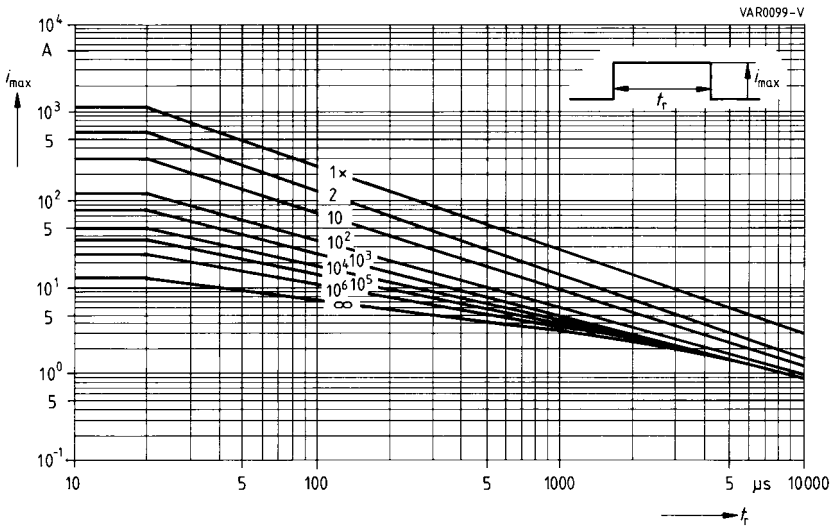
Maximum surge current

$i_{\max} = f(t_r, \text{pulse train})$ – 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

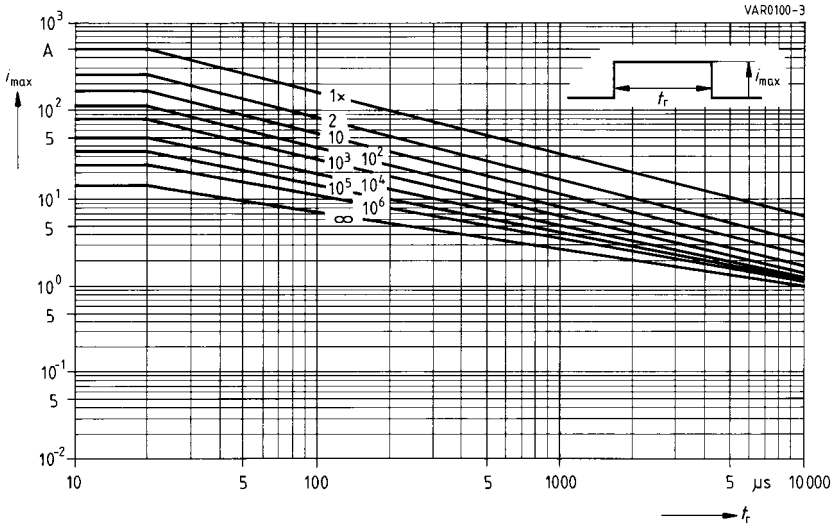
SIOV-CU4032S60AG2/S95AG2

SIOV Metal Oxide Varistors

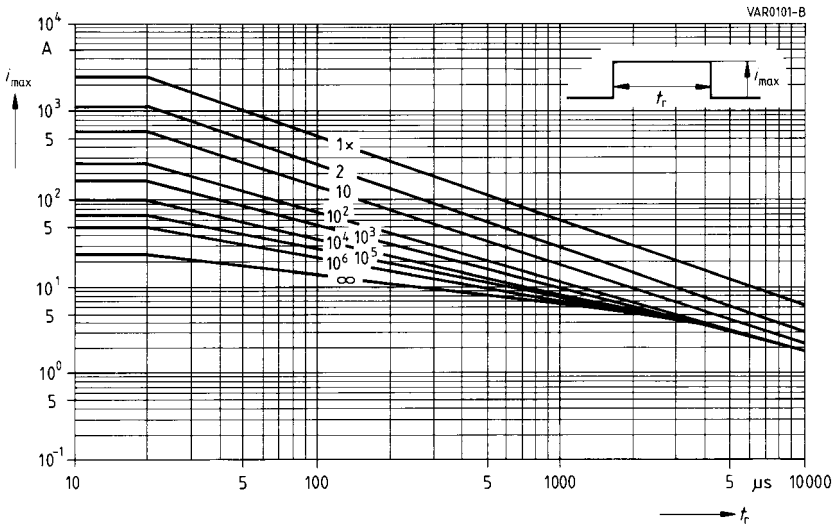
Derating Curves

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



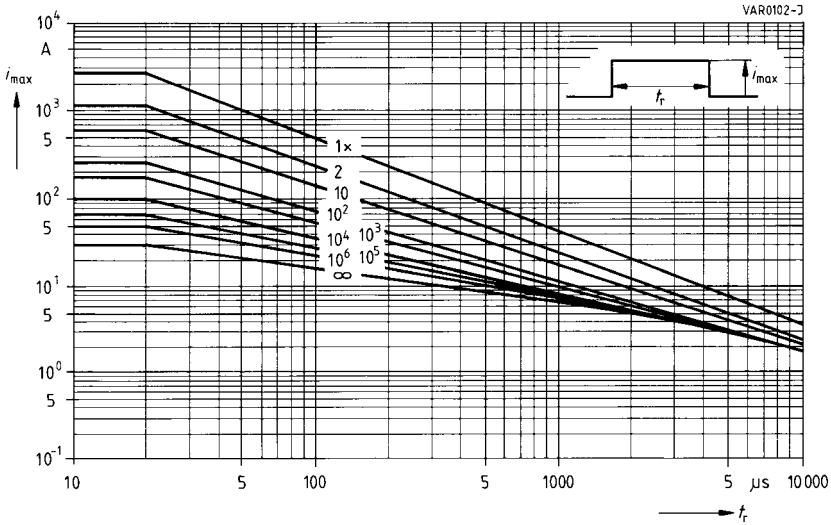
SIOV-S10K50 ... K320

SIOV Metal Oxide Varistors

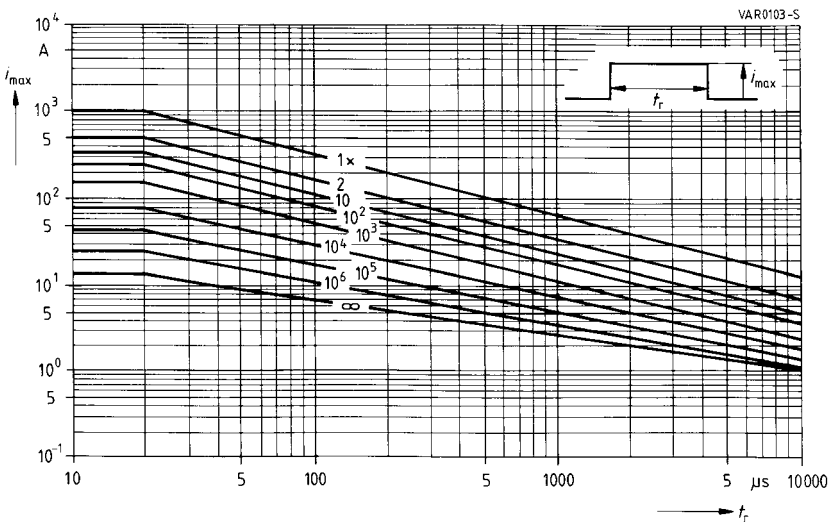
Derating Curves

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

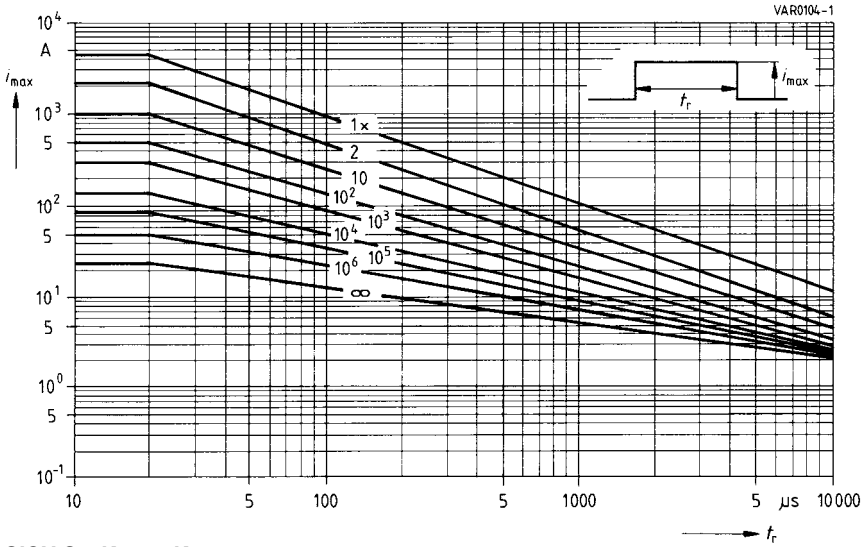
SIOV-S14K14AUTOS5D1

SIOV Metal Oxide Varistors

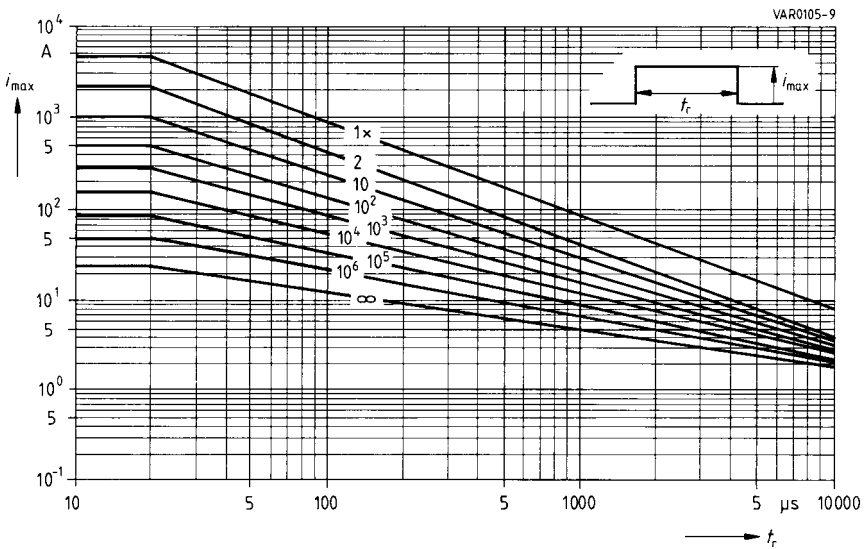
Derating Curves

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



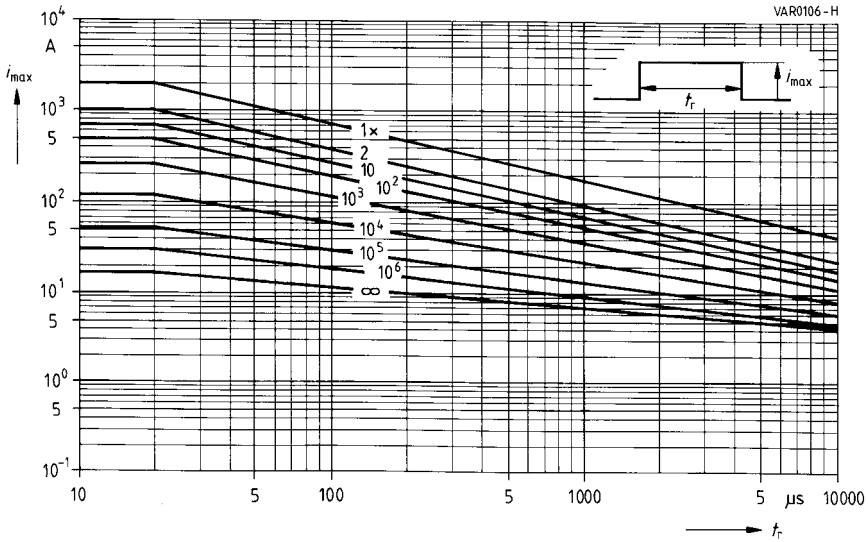
SIOV-S14K385 ... K1000

SIOV Metal Oxide Varistors

Derating Curves

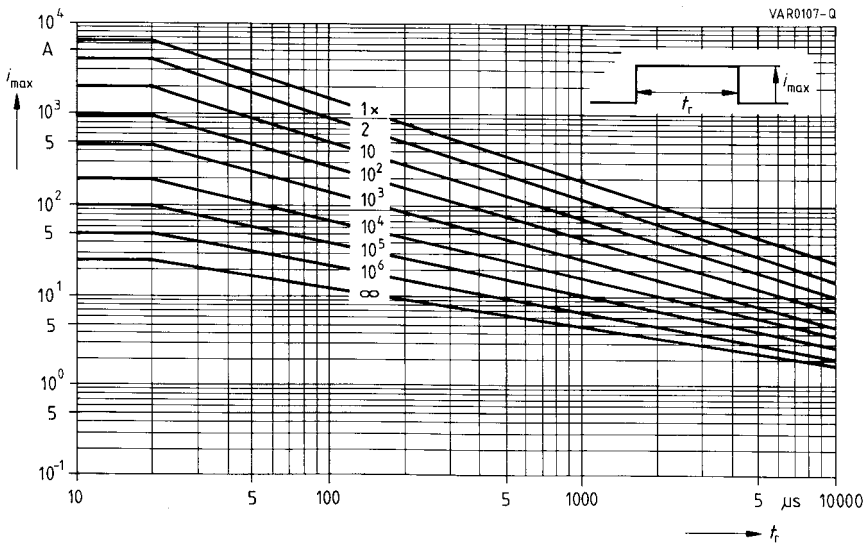
Maximum surge current

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



SIOV-S20K11 ... K40

SIOV-S20K14AUTO ... K30AUTO



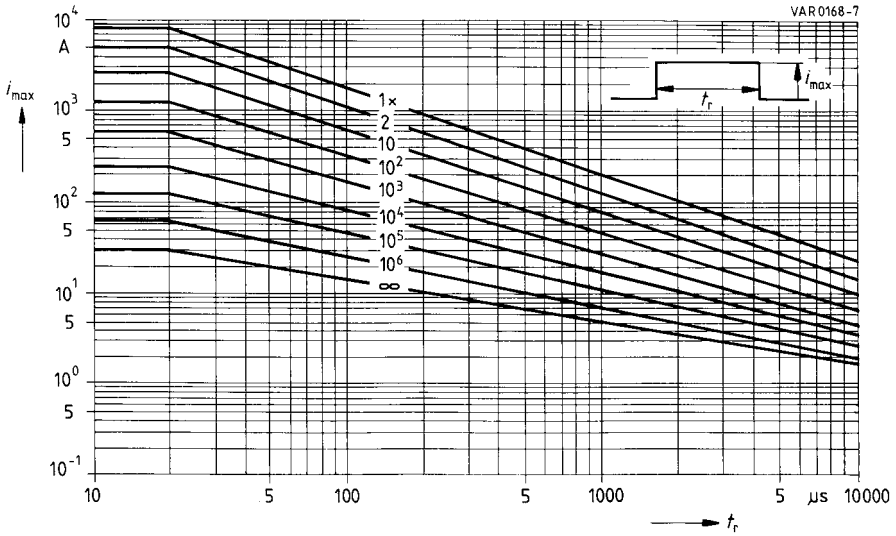
SIOV-S20K50 ... K115

SIOV Metal Oxide Varistors

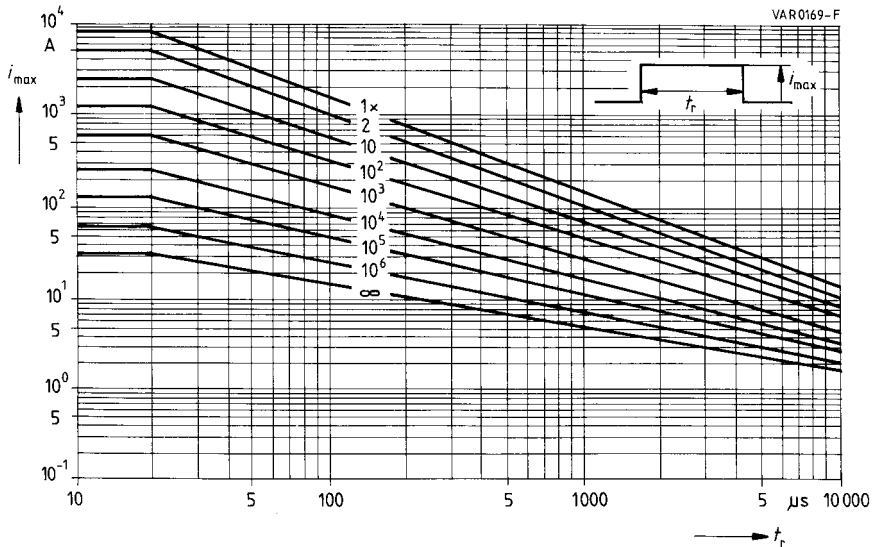
Derating Curves

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



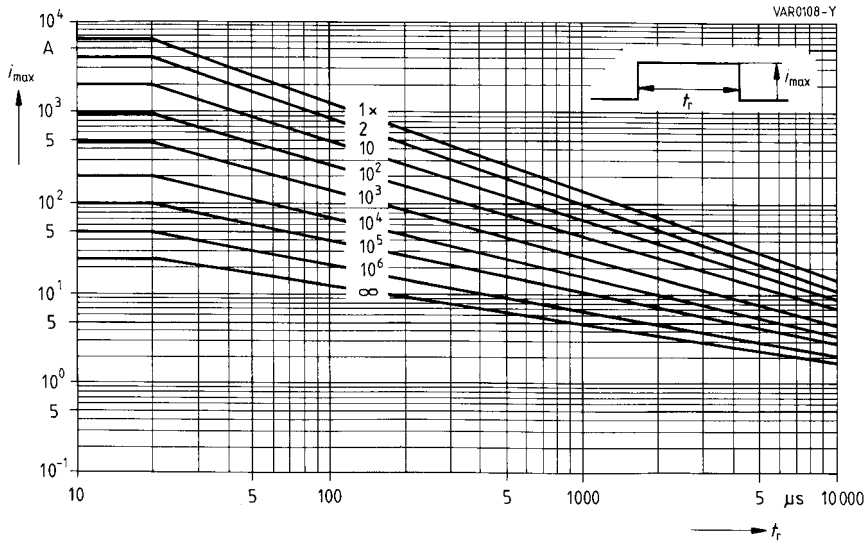
SIOV-S20K385 ... K460

SIOV Metal Oxide Varistors

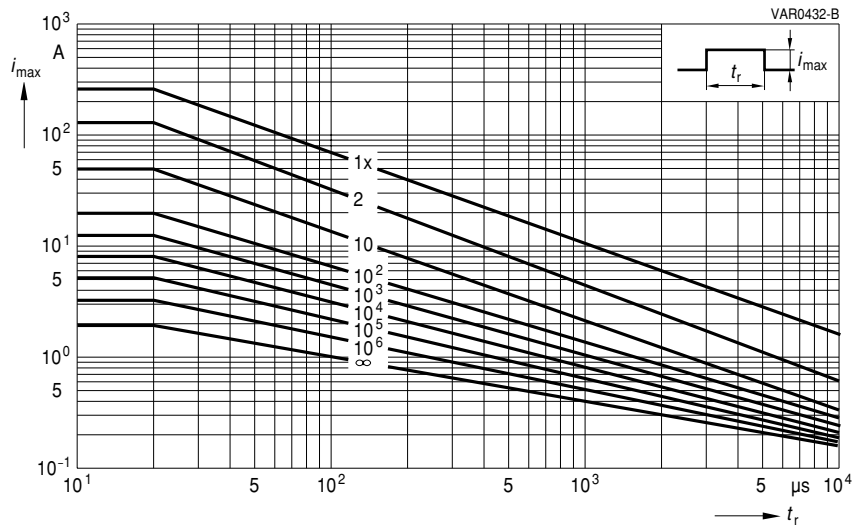
Derating Curves

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



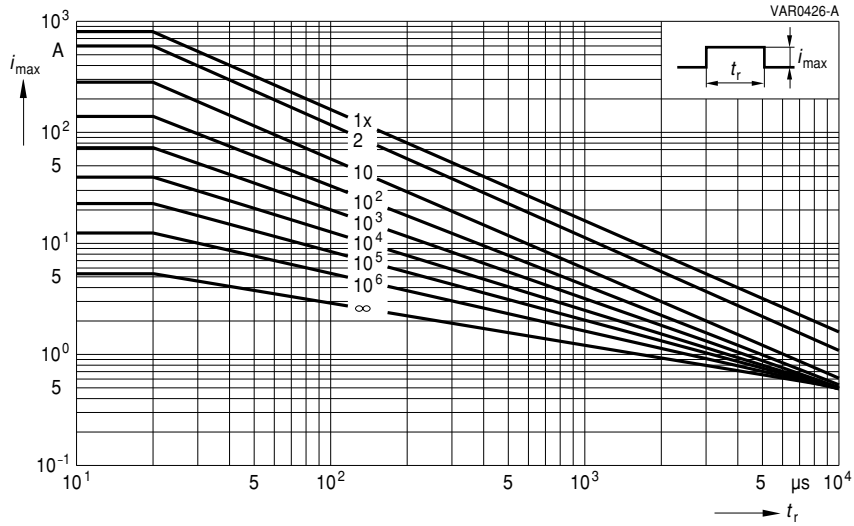
SIOV-S05K11 ... K40E2

SIOV Metal Oxide Varistors

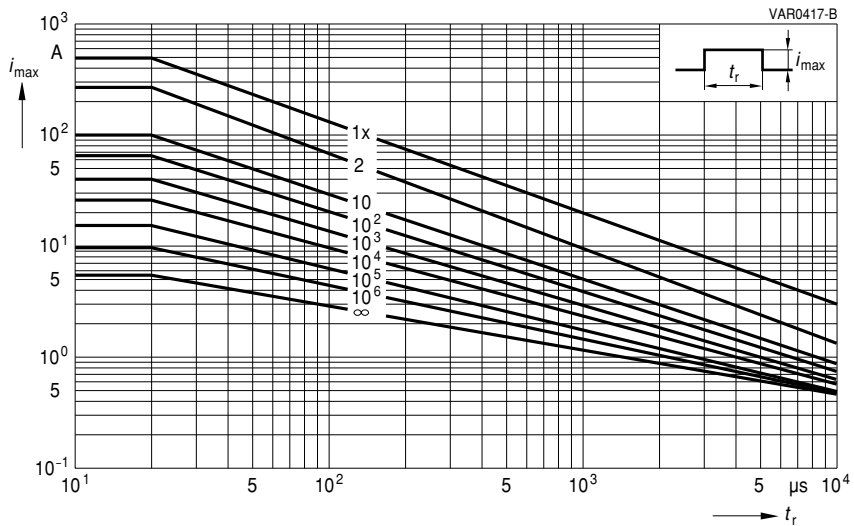
Derating Curves

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



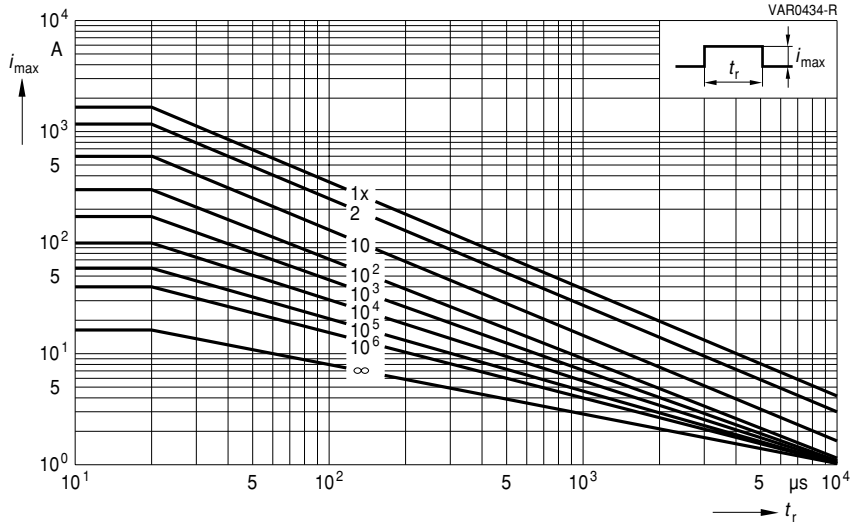
SIOV-S07K11 ... K40E2

SIOV Metal Oxide Varistors

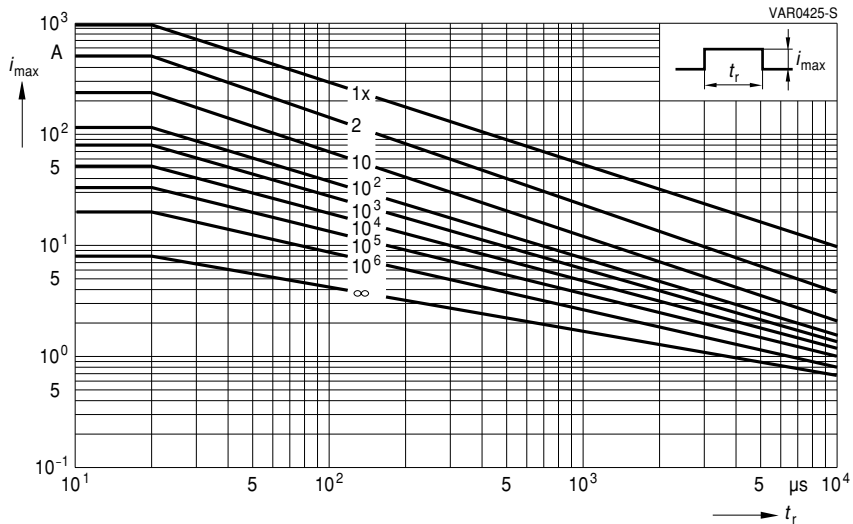
Derating Curves

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



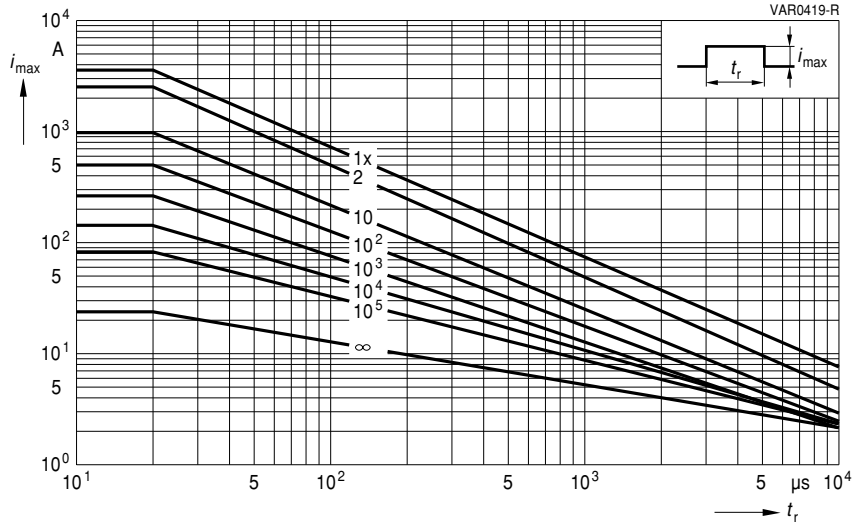
SIOV-S10K11 ... K40E2

SIOV Metal Oxide Varistors

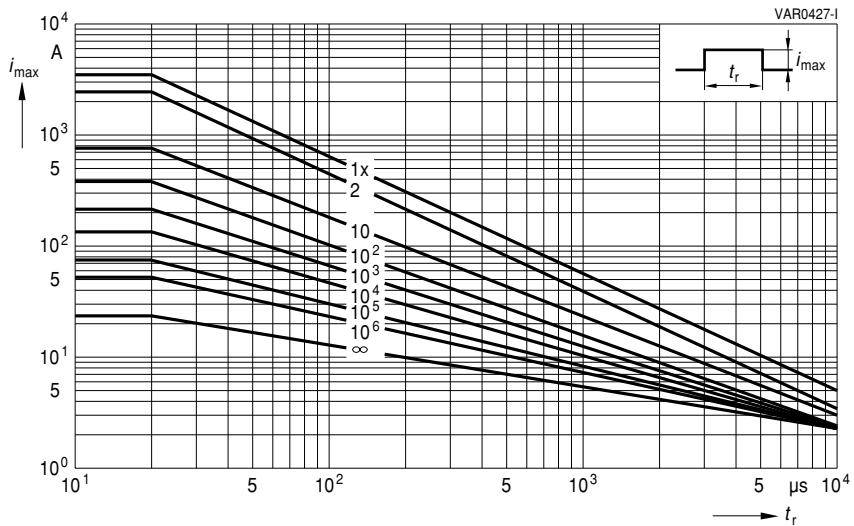
Derating Curves

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



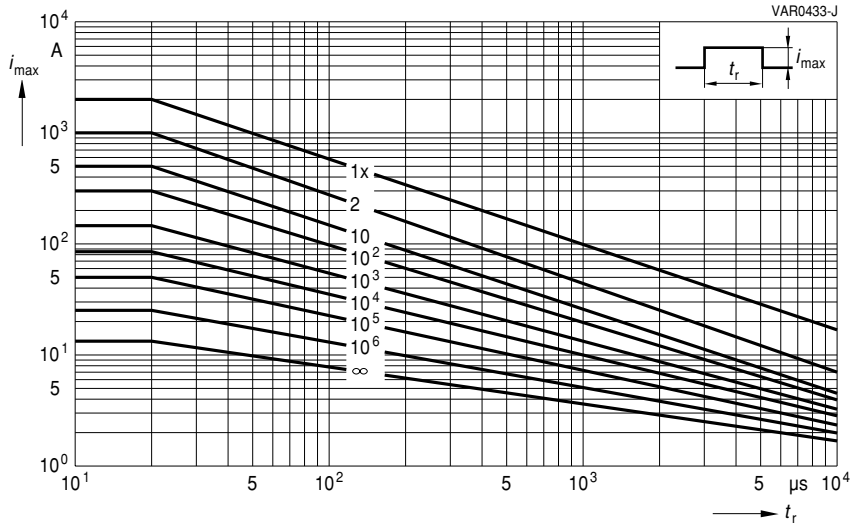
SIOV-S10K385 ... K680E2

SIOV Metal Oxide Varistors

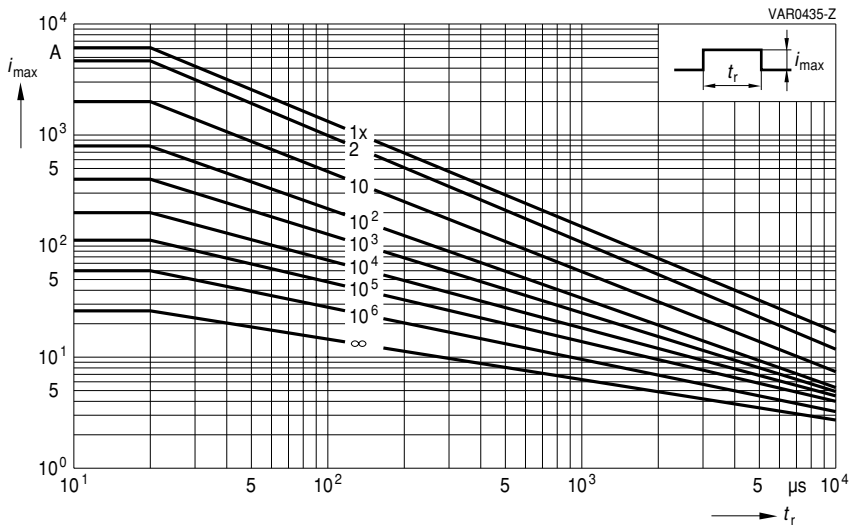
Derating Curves

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



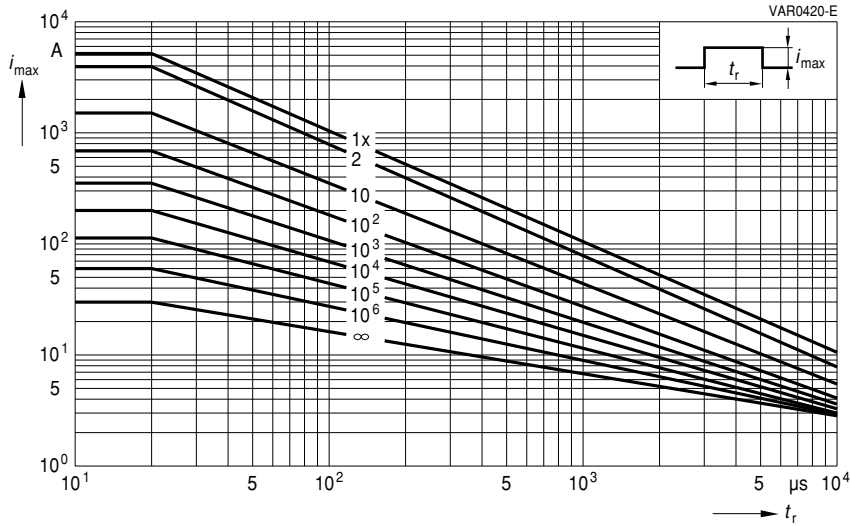
SIOV-S14K50 ... K320E2

SIOV Metal Oxide Varistors

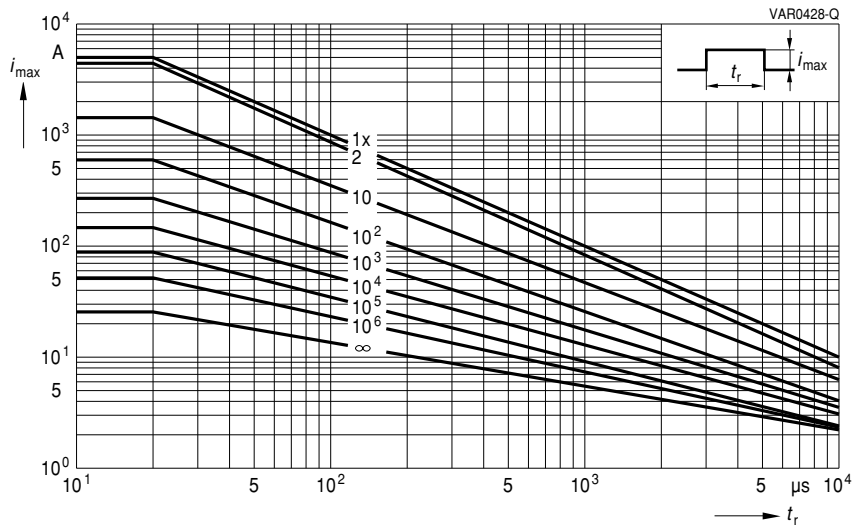
Derating Curves

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



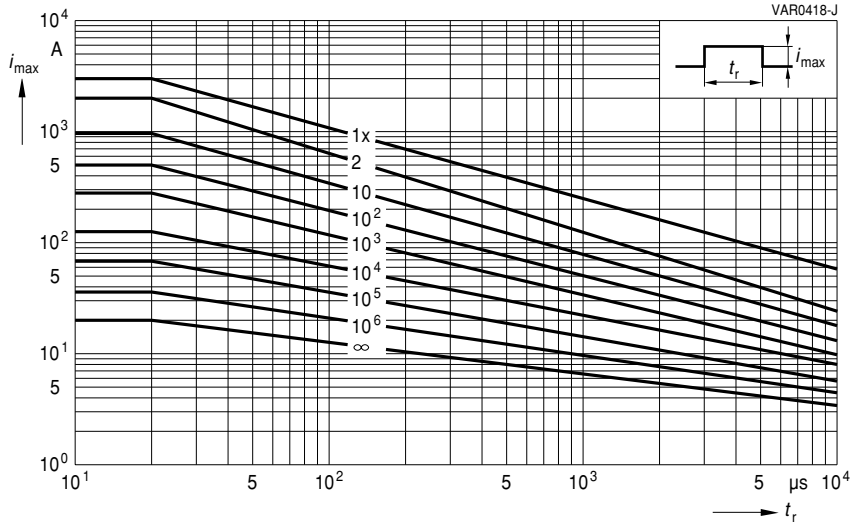
SIOV-S14K1000E2

SIOV Metal Oxide Varistors

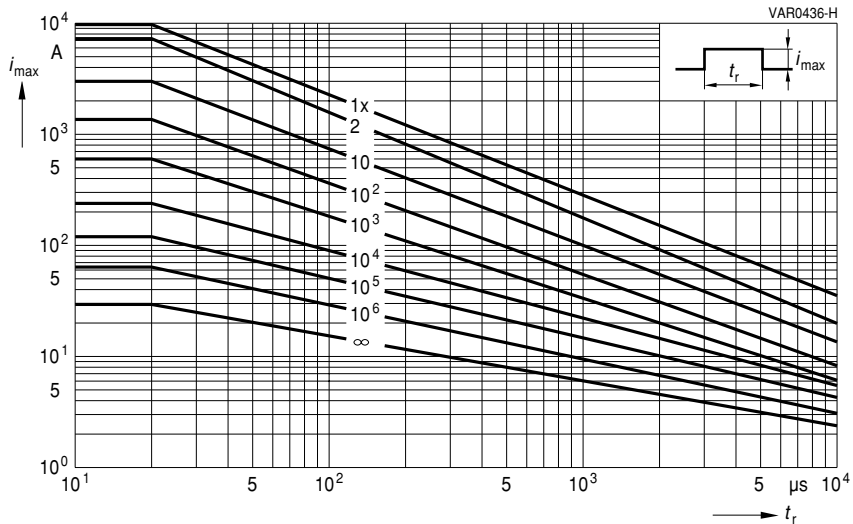
Derating Curves

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



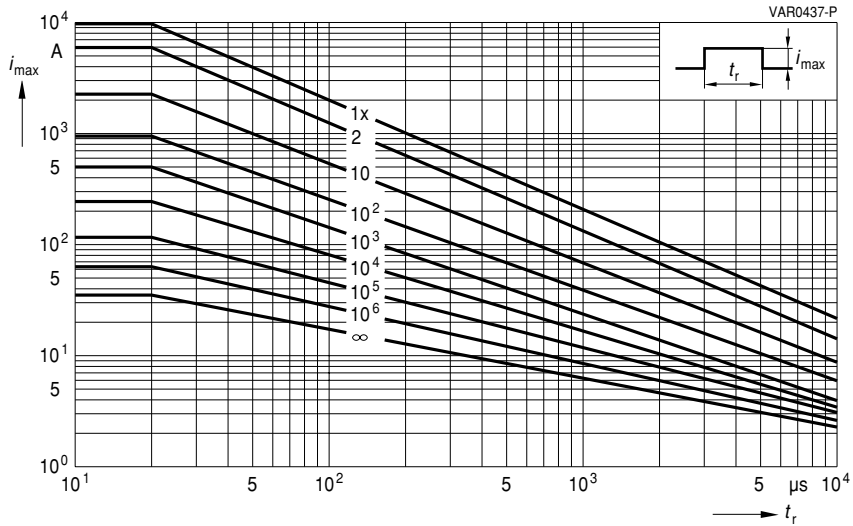
SIOV-S20K50 ... K320E2

SIOV Metal Oxide Varistors

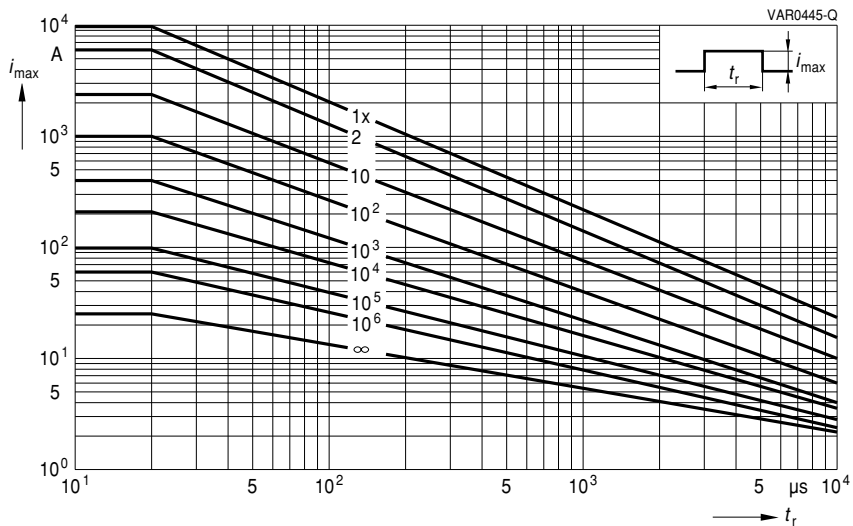
Derating Curves

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



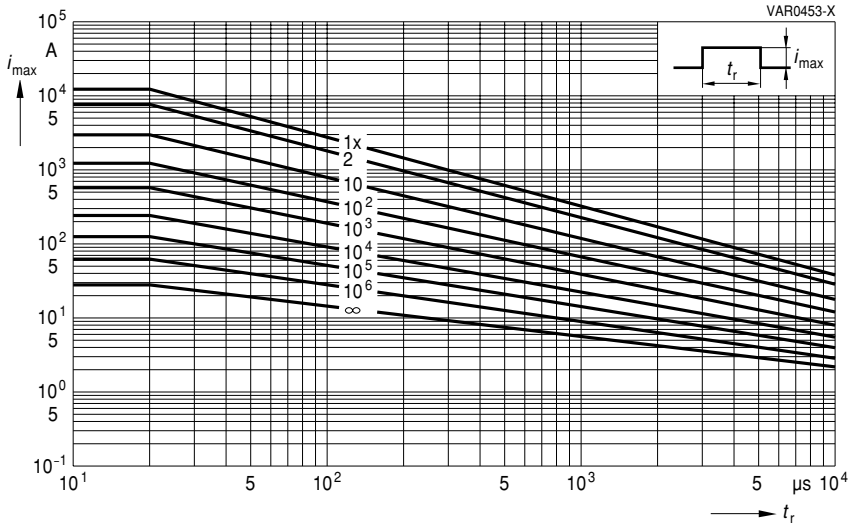
SIOV-S20K1000E2

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](#)



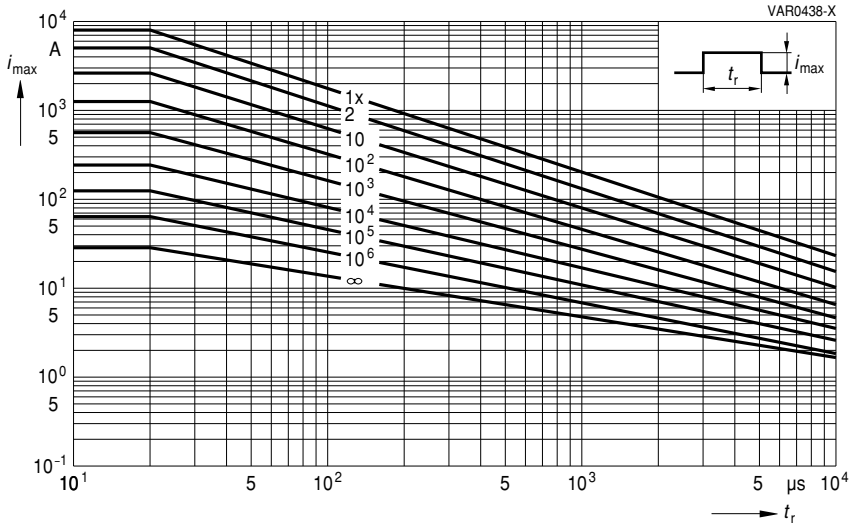
SIOV-S20K115 ... K320E3

SIOV Metal Oxide Varistors

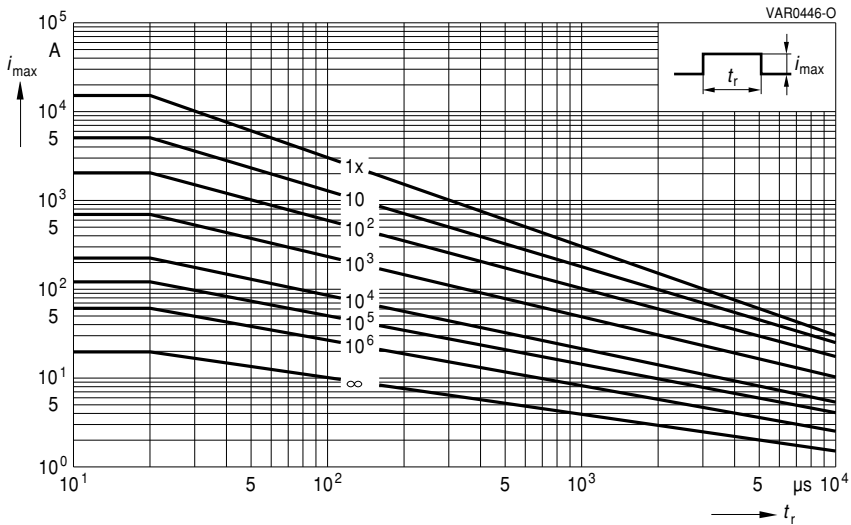
Derating Curves

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



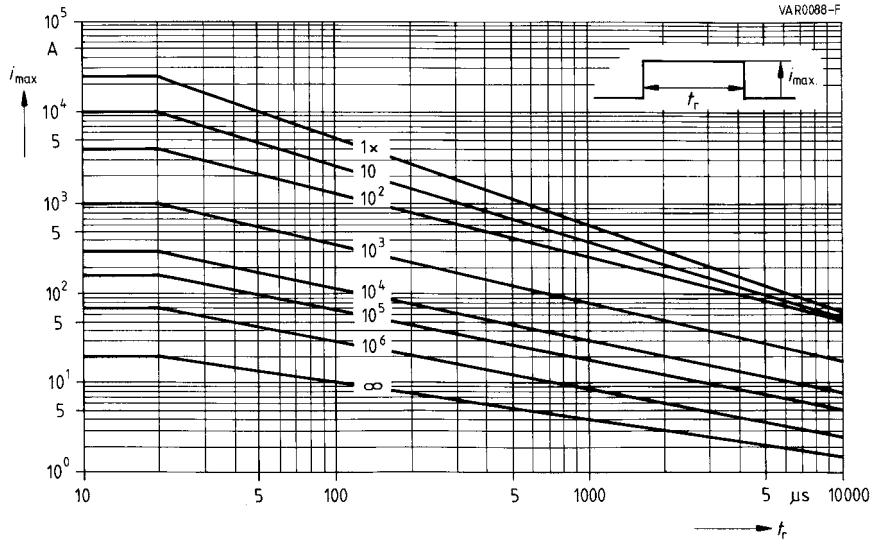
SIOV-Q20K130 ... K320

SIOV Metal Oxide Varistors

Derating Curves

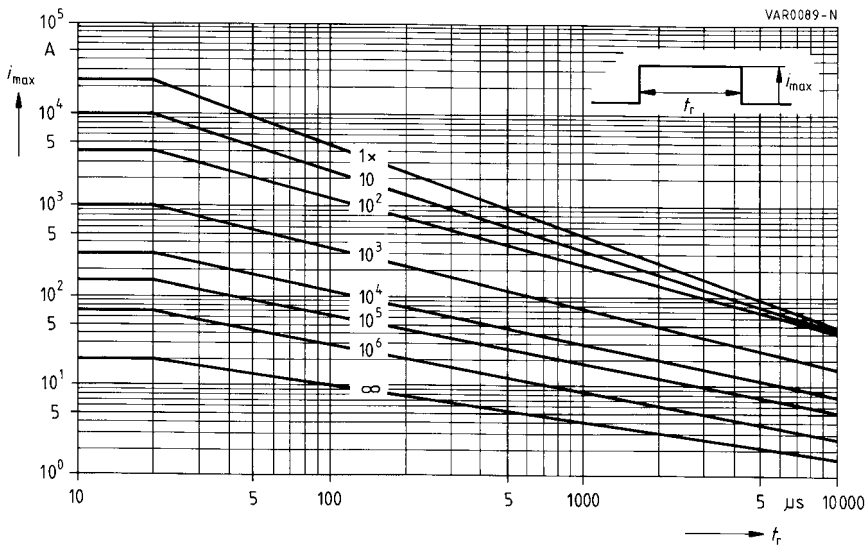
Maximum surge current

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



SIOV-B32K130 ... K150

SIOV-B40K75



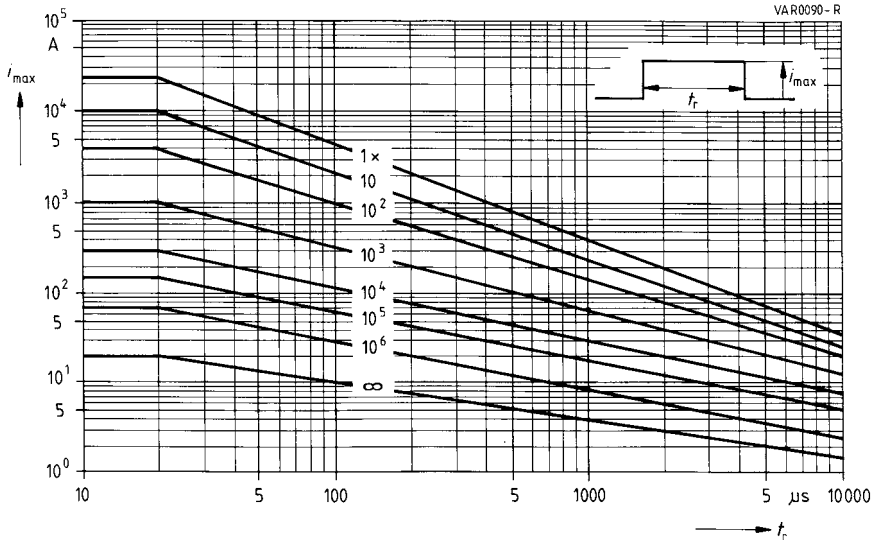
SIOV-B32K230 ... K460

SIOV Metal Oxide Varistors

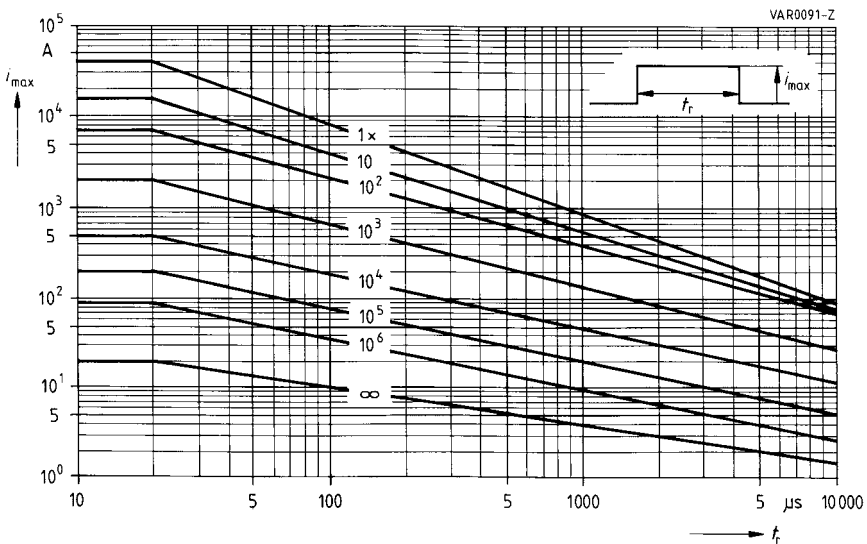
Derating Curves

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

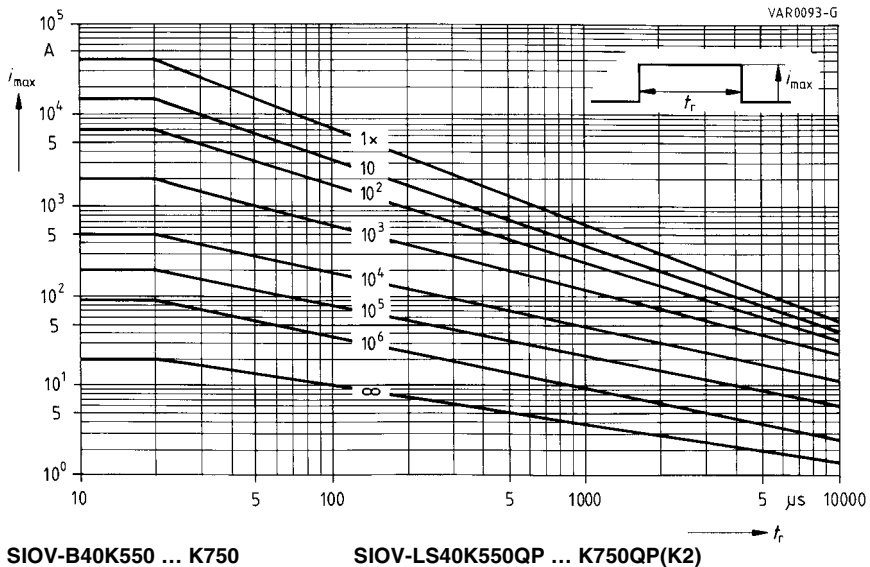
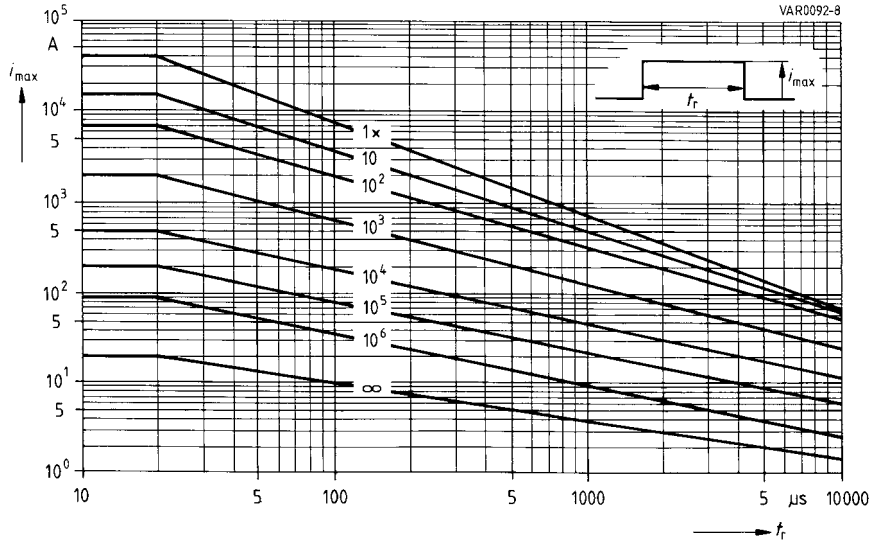
SIOV-LS40K130QP ... K150QP(K2)

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](#)

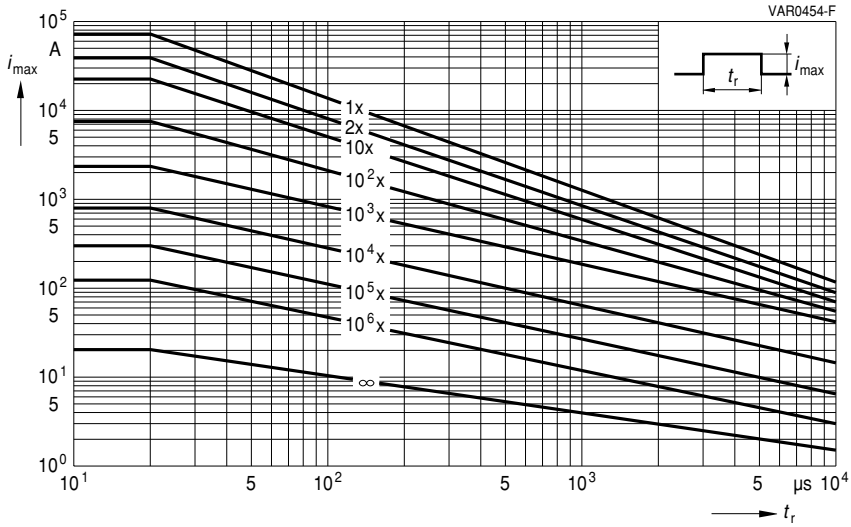


SIOV Metal Oxide Varistors

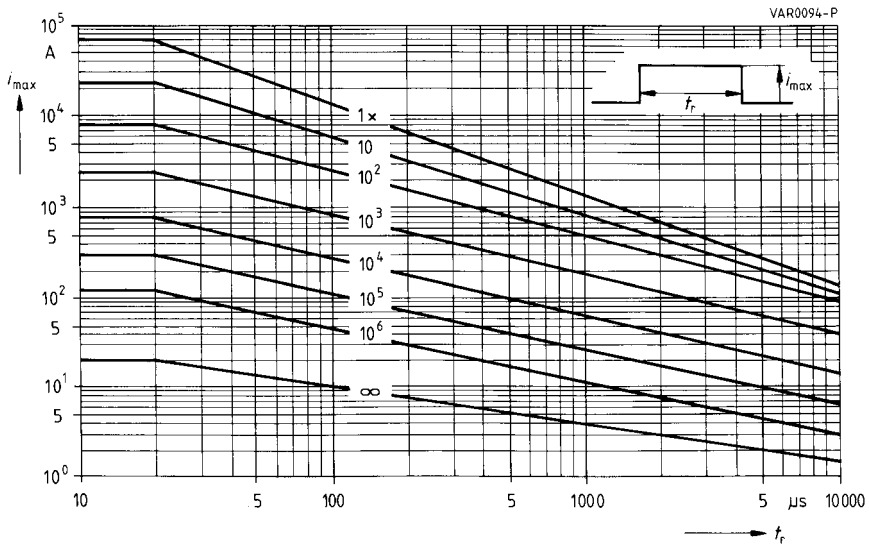
Derating Curves

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)



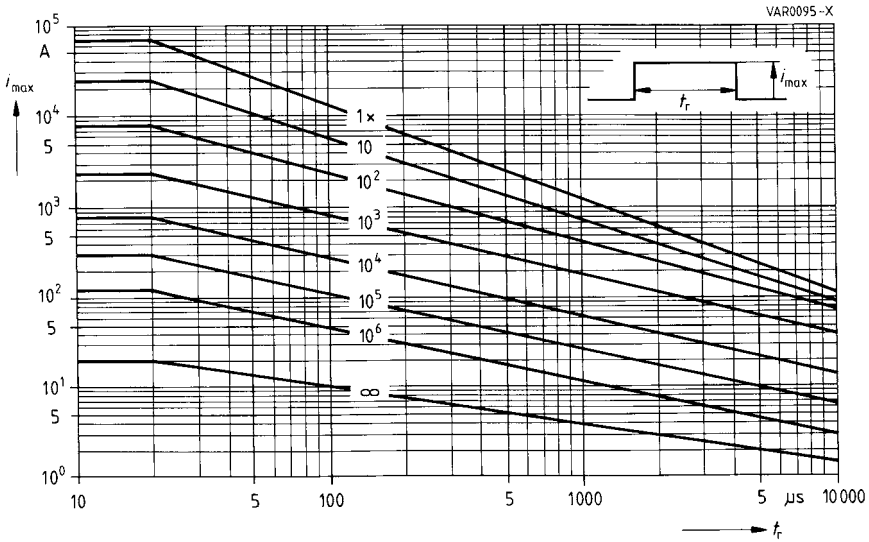
SIOV-B60K130 ... K150

SIOV Metal Oxide Varistors

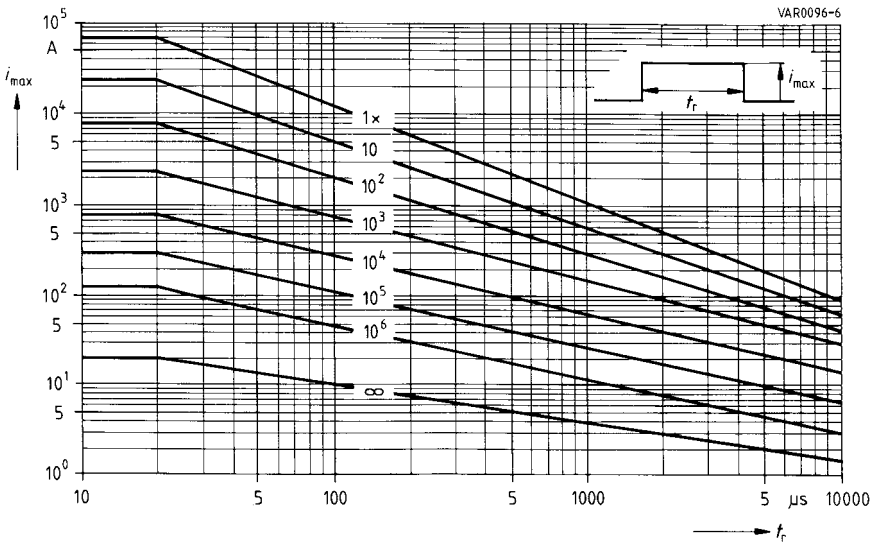
Derating Curves

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



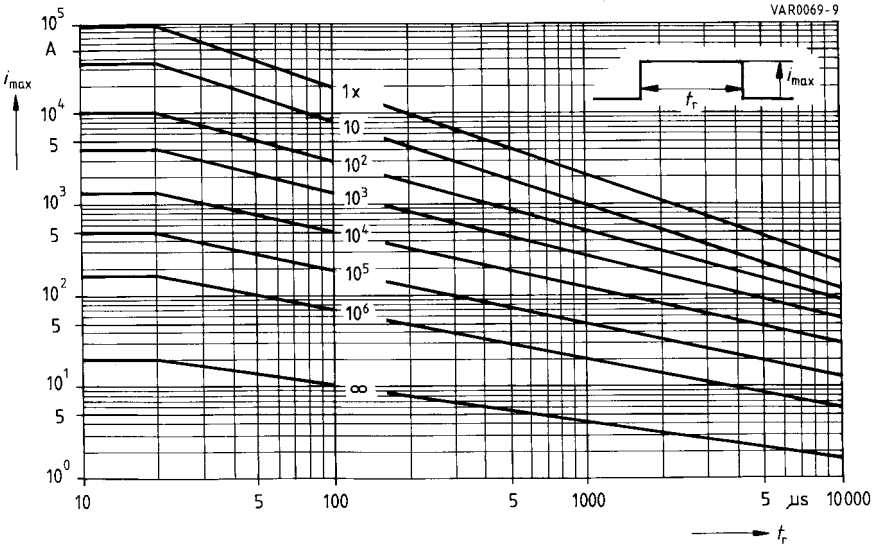
SIOV-B60K550 ... K1000

SIOV Metal Oxide Varistors

Derating Curves

Maximum surge current

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



SIOV-B80K130 ... K1100

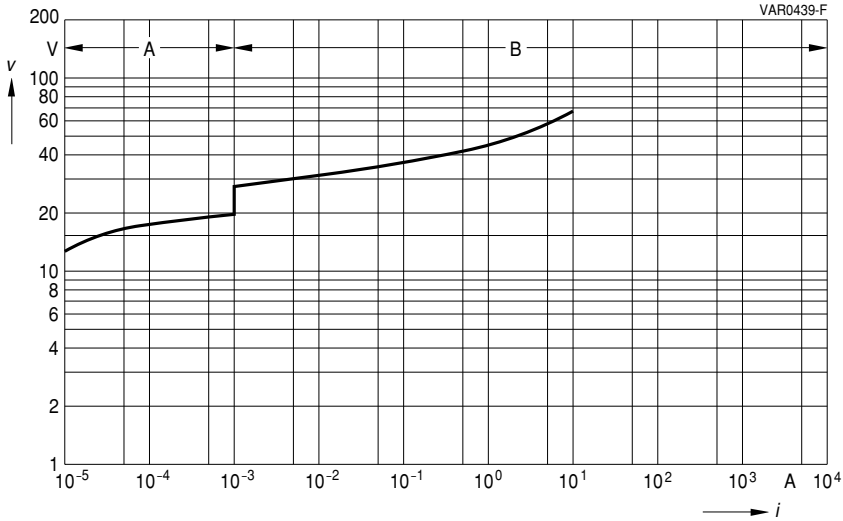
SIOV Metal Oxide Varistors

V/I Characteristics

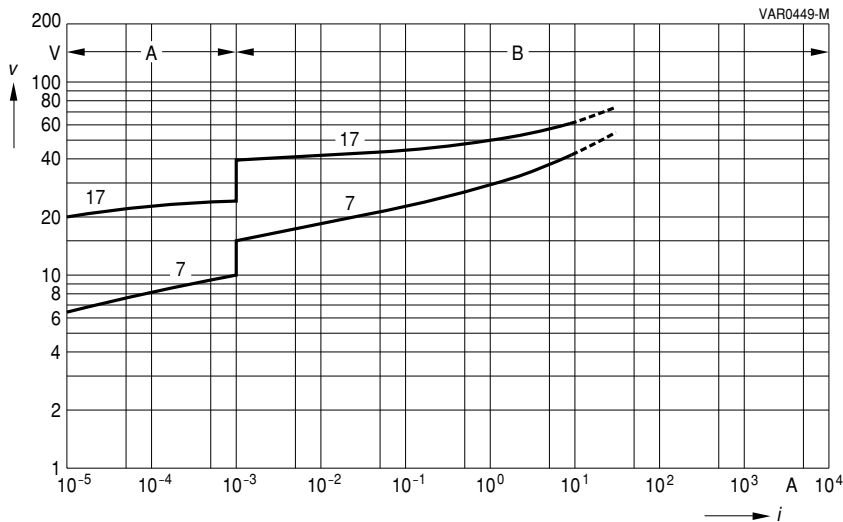
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

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

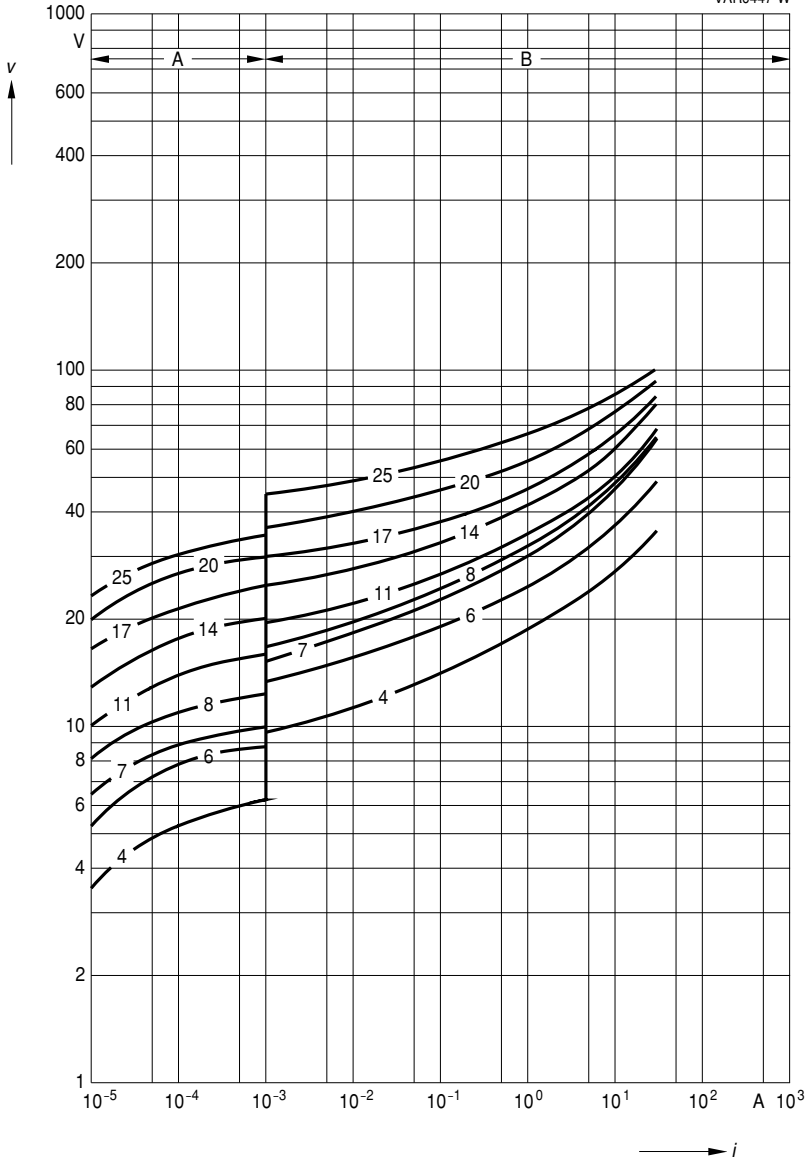
V/I Characteristics

$v = f(i)$ – 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

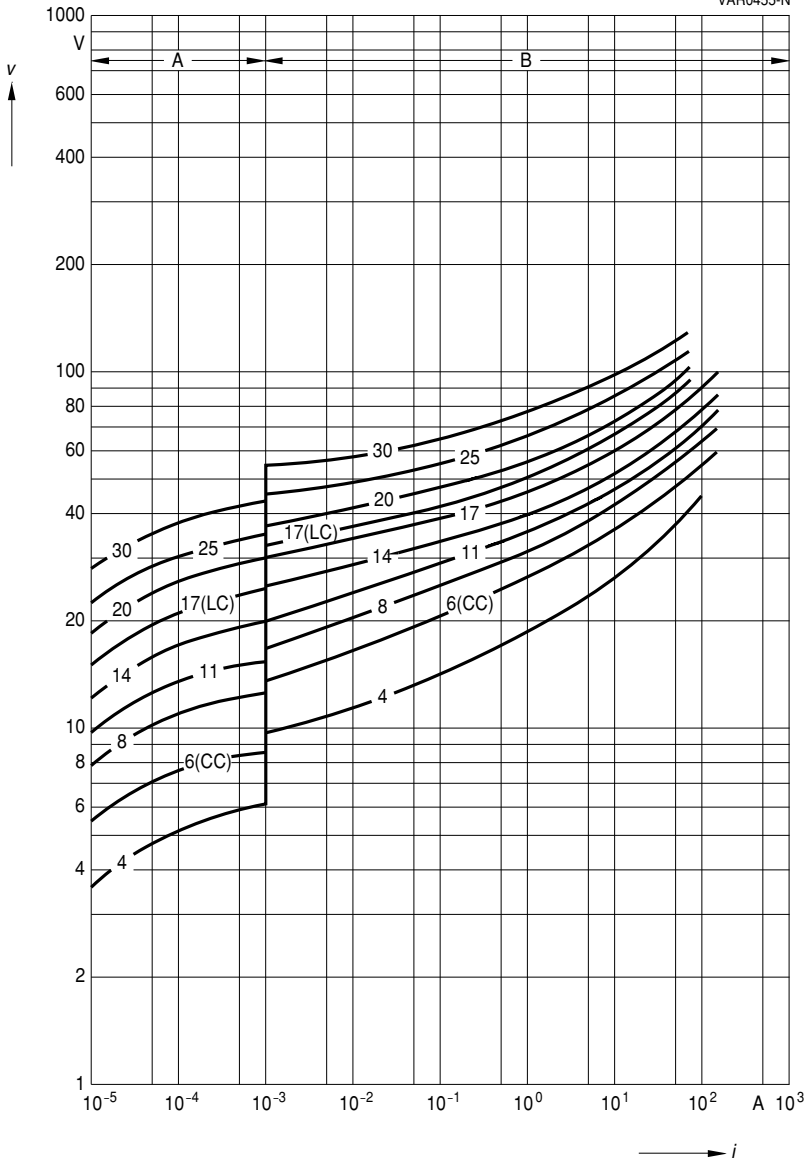
V/I Characteristics

$v = f(i)$ – 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

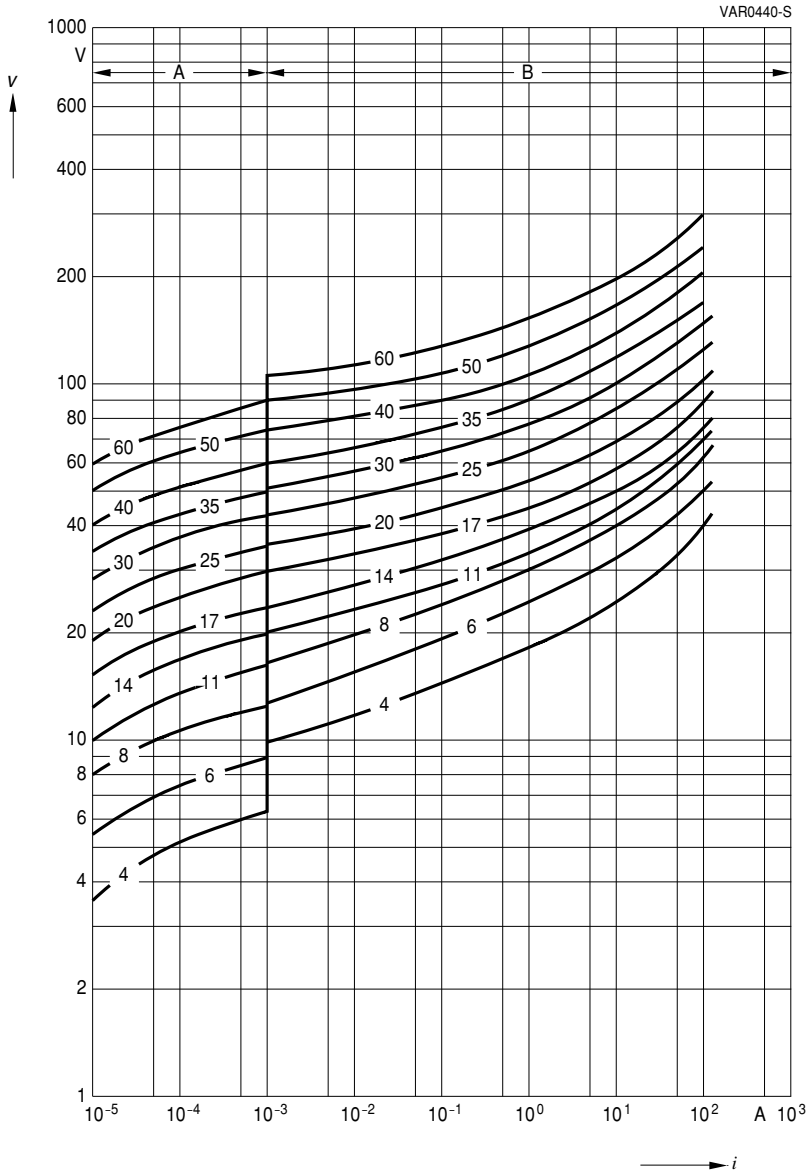
SIOV Metal Oxide Varistors

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

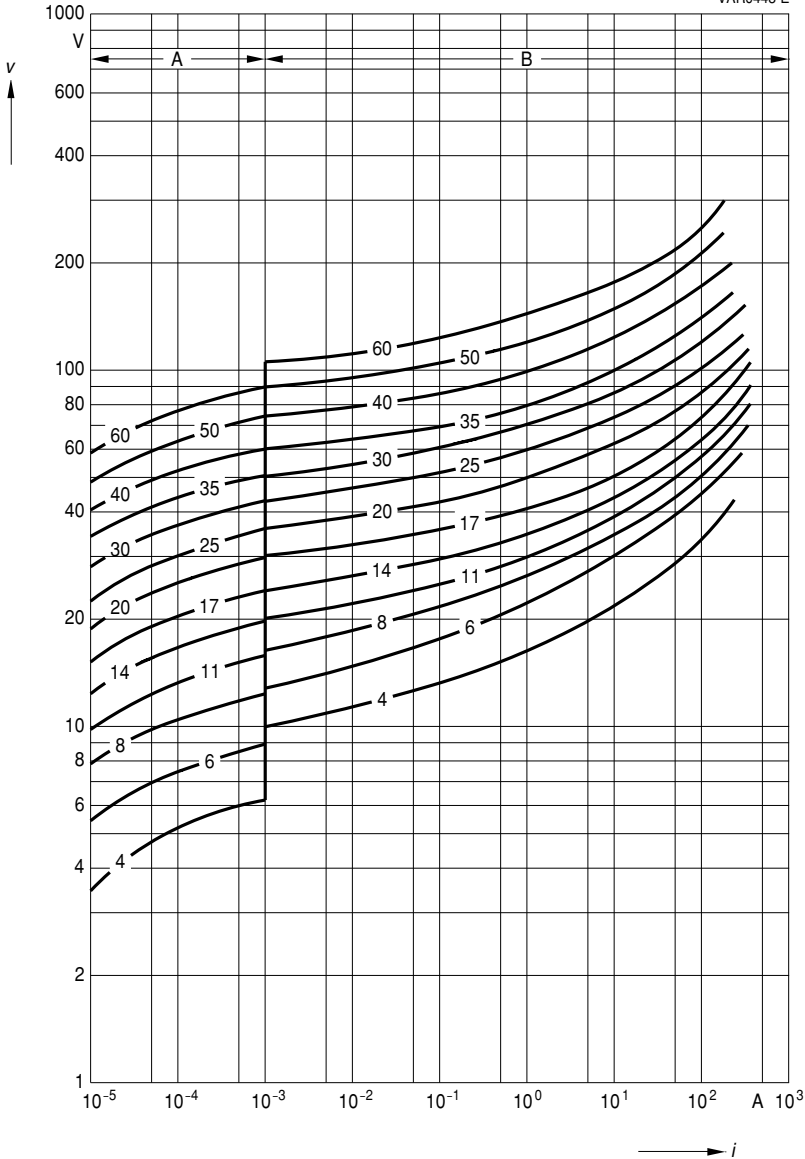
V/I Characteristics

$v = f(i)$ – 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

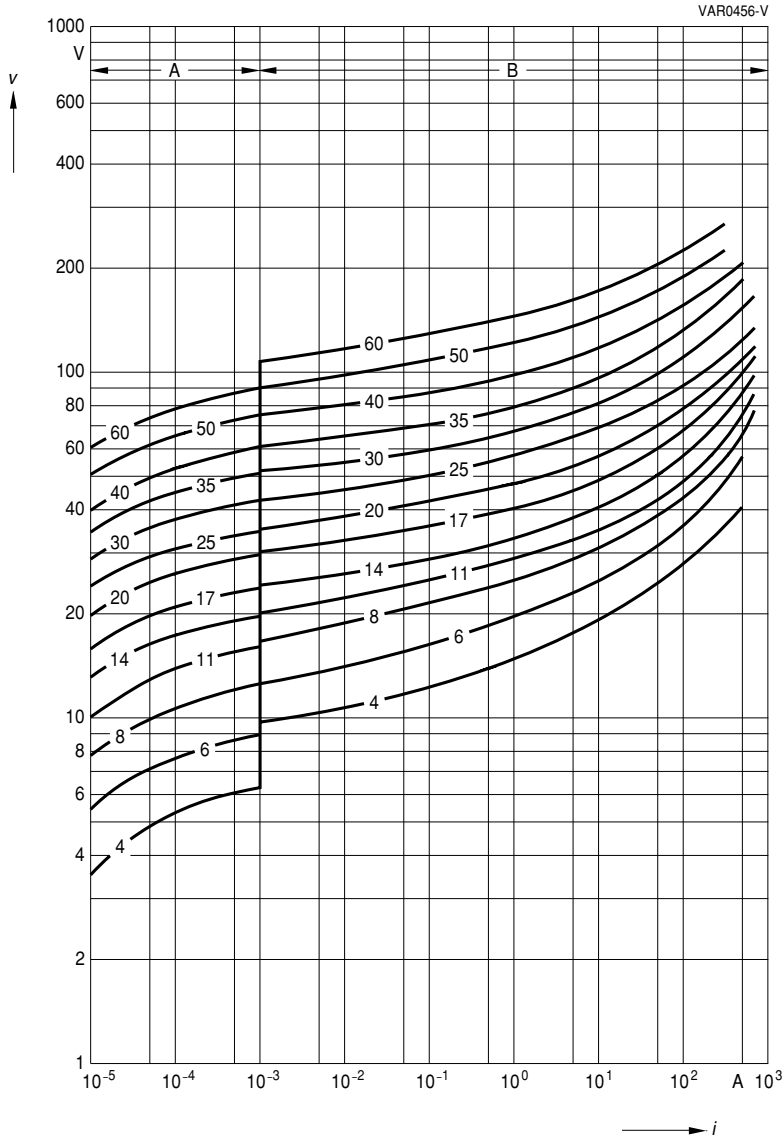
SIOV Metal Oxide Varistors

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

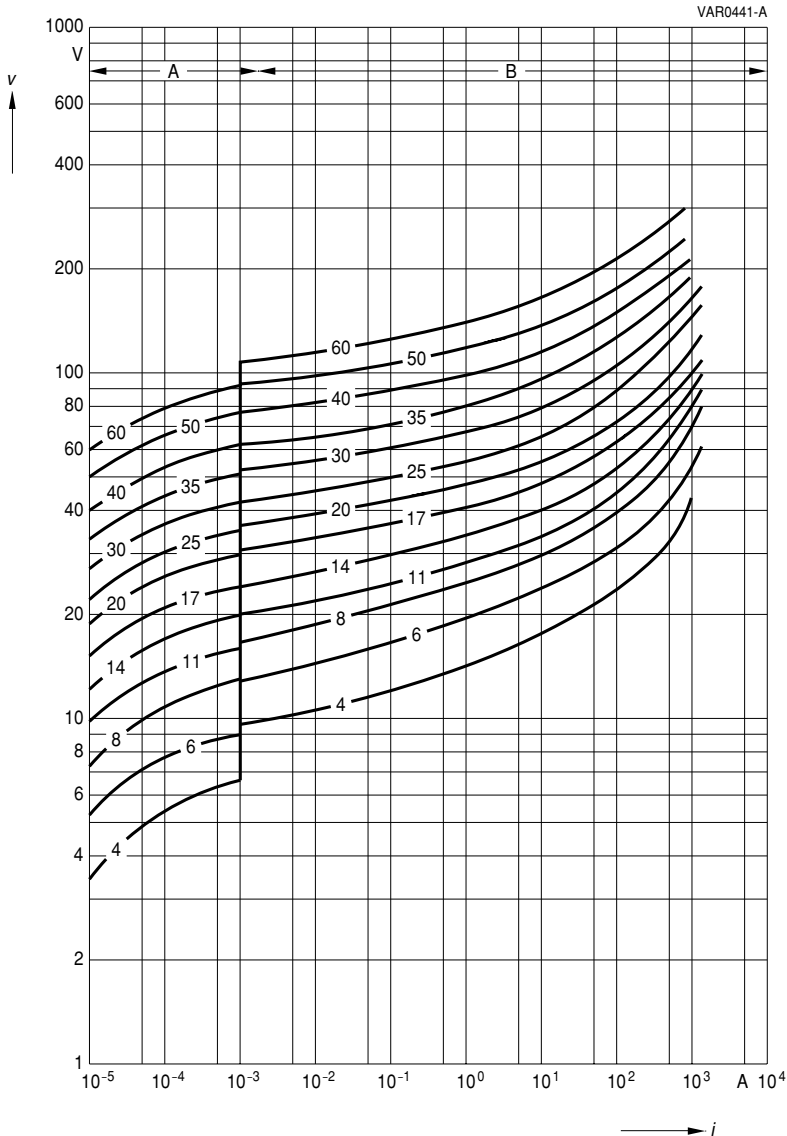
SIOV Metal Oxide Varistors

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/CN2220M4G ... K60G

SIOV-CT/CN2220K25G ... K30AUTO(E2)G(2)

SHCV-SR2K20M ... X/Z $\hat{=}$ 2220

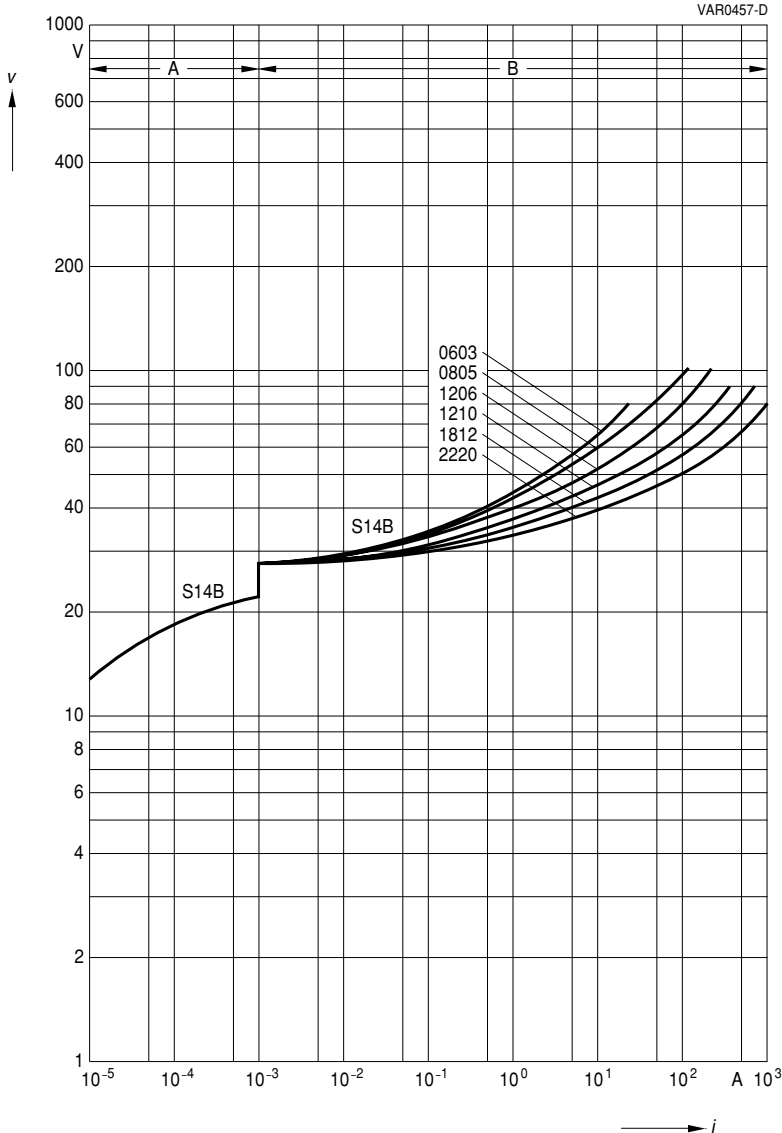
SIOV Metal Oxide Varistors

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

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

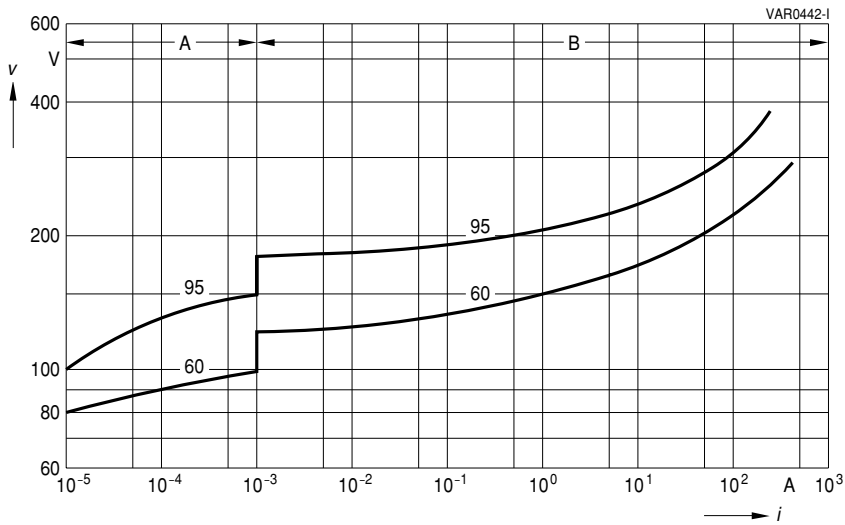
SIOV Metal Oxide Varistors

V/I Characteristics

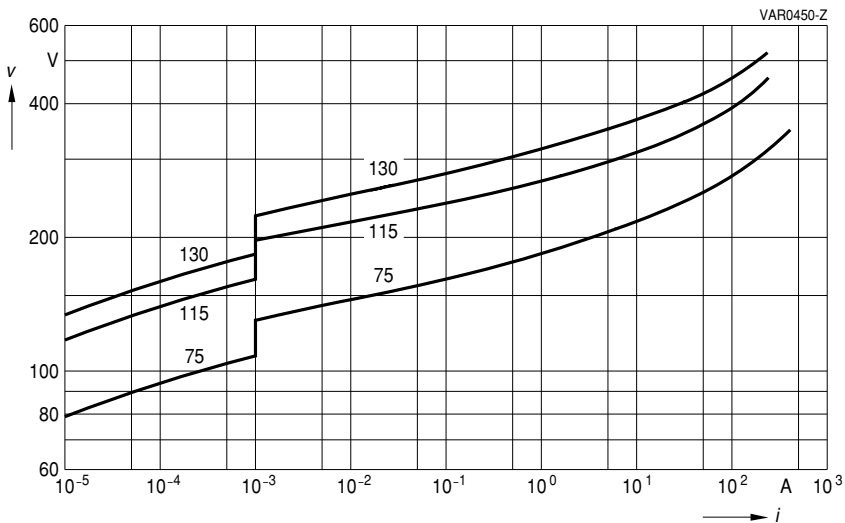
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-CT/CN1812S60AG2 ... S95AG2



SIOV-CT/CN1812K75G2 ... K130G2

SIOV Metal Oxide Varistors

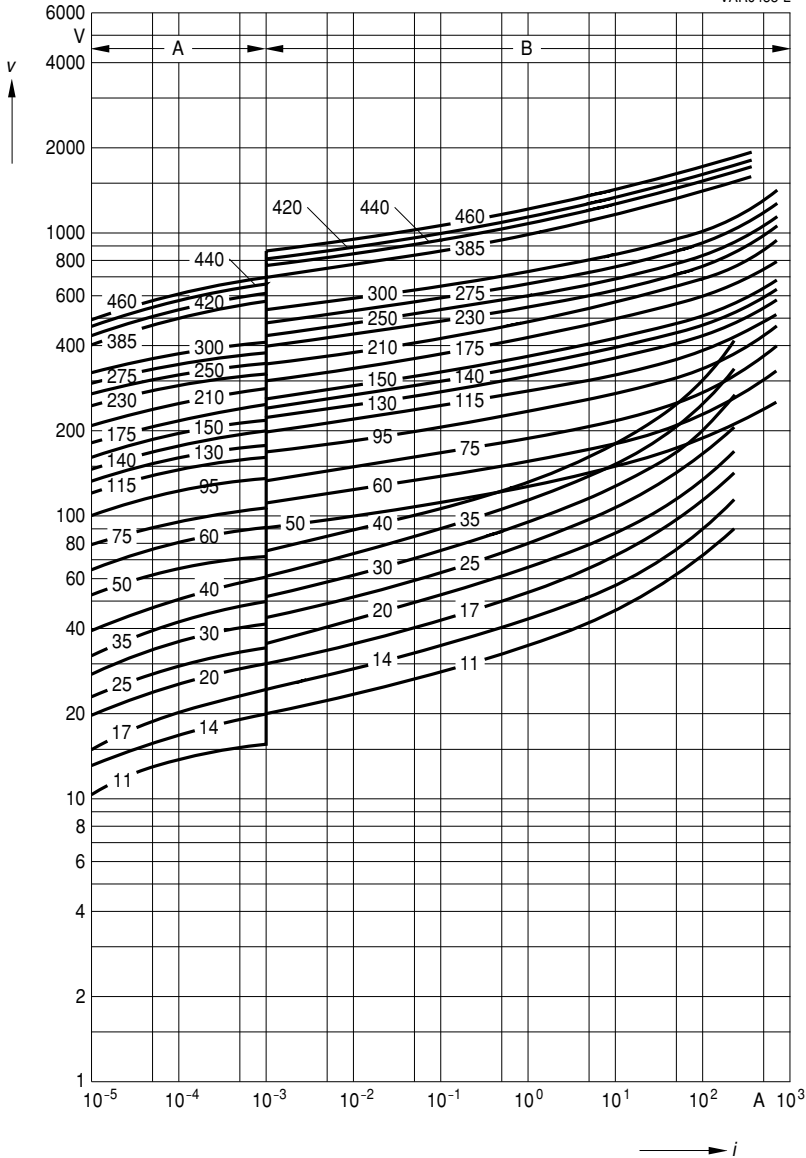
V/I Characteristics

$v = f(i)$ – 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

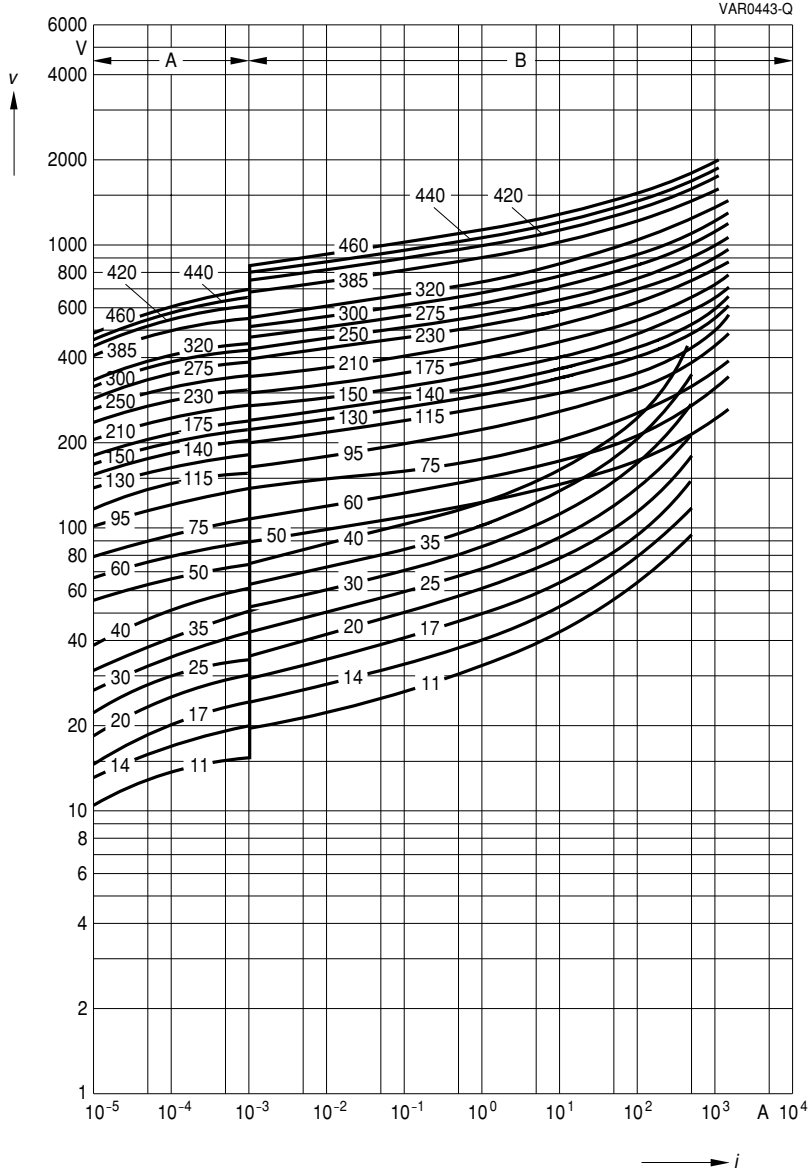
SIOV Metal Oxide Varistors

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

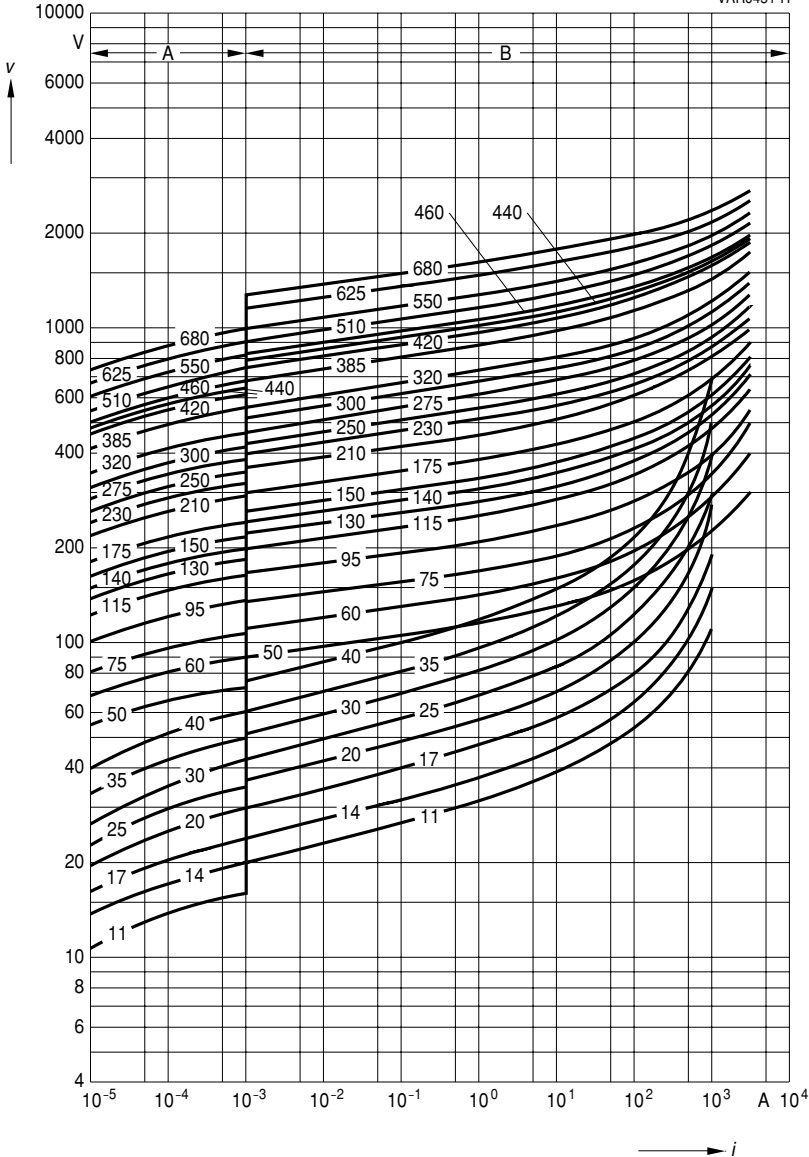
V/I Characteristics

$v = f(i)$ – 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)

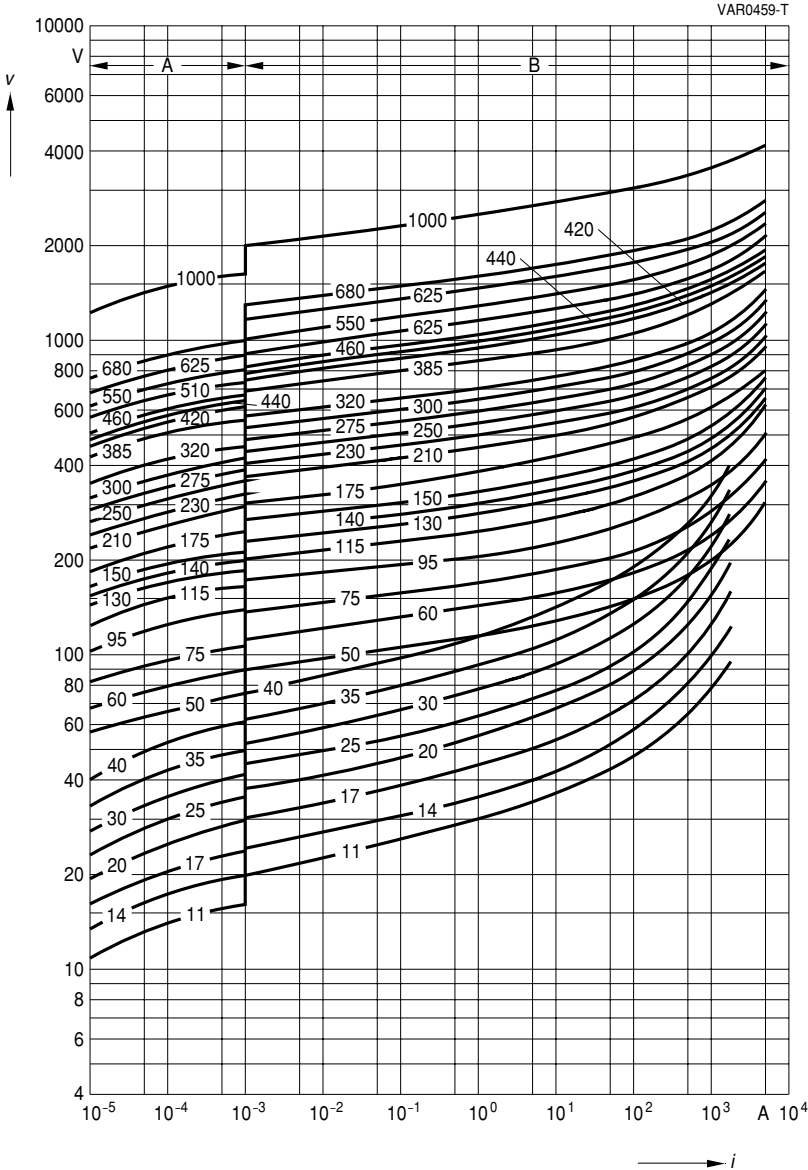
SIOV Metal Oxide Varistors

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)

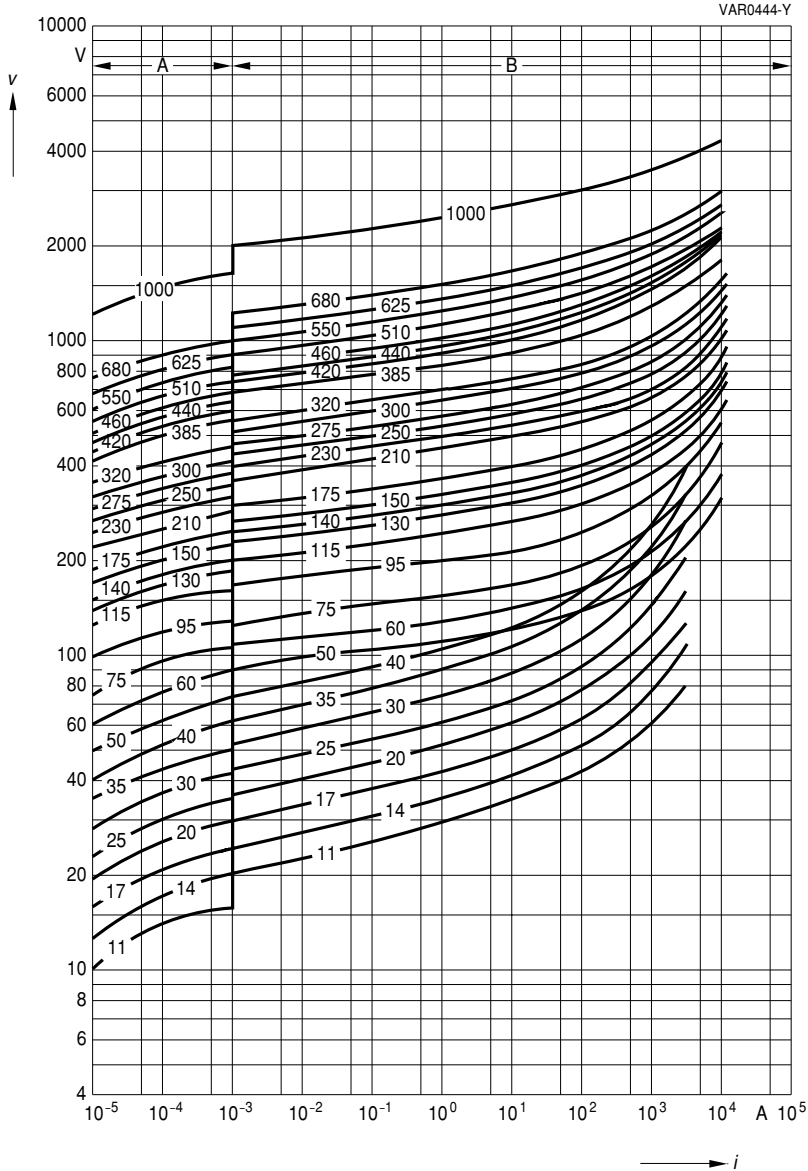
SIOV Metal Oxide Varistors

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)

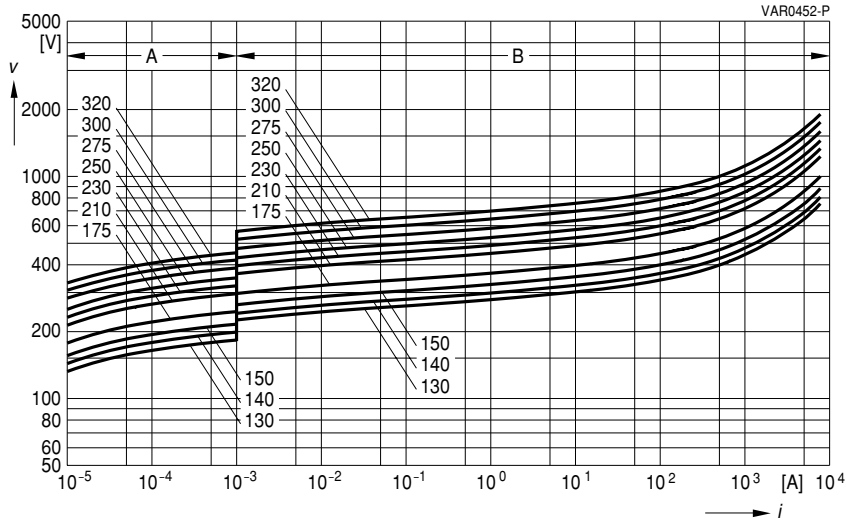
SIOV Metal Oxide Varistors

V/I Characteristics

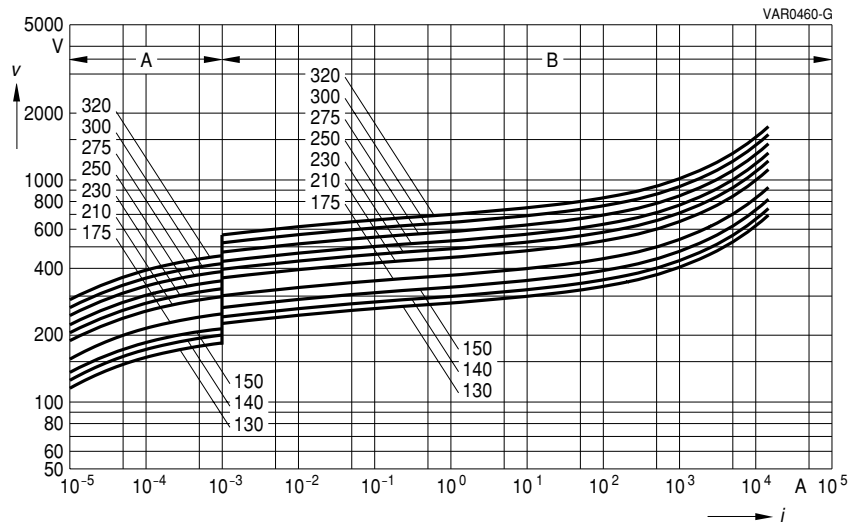
$v = f(i)$ – for explanation of the characteristics
refer to section 1.6.3

A = Leakage current
B = Protection level

{ for worst-case
varistor tolerances



SIOV-Q14



SIOV-Q20

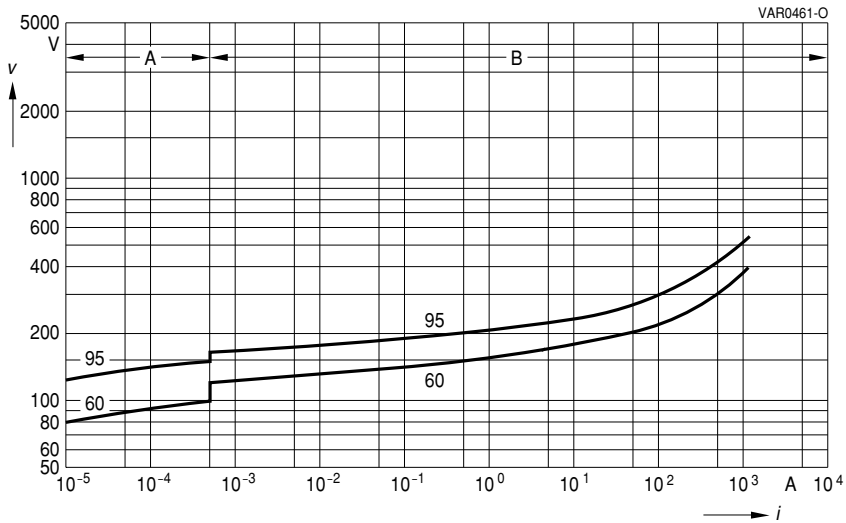
SIOV Metal Oxide Varistors

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

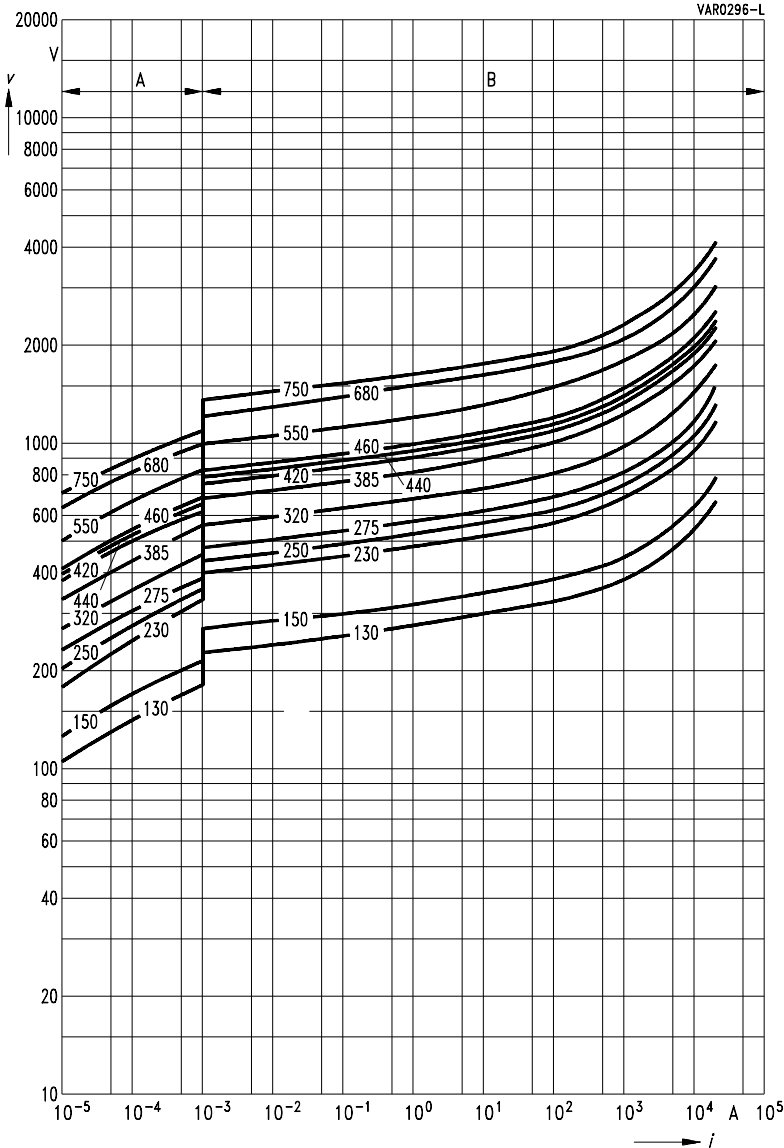
SIOV Metal Oxide Varistors

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

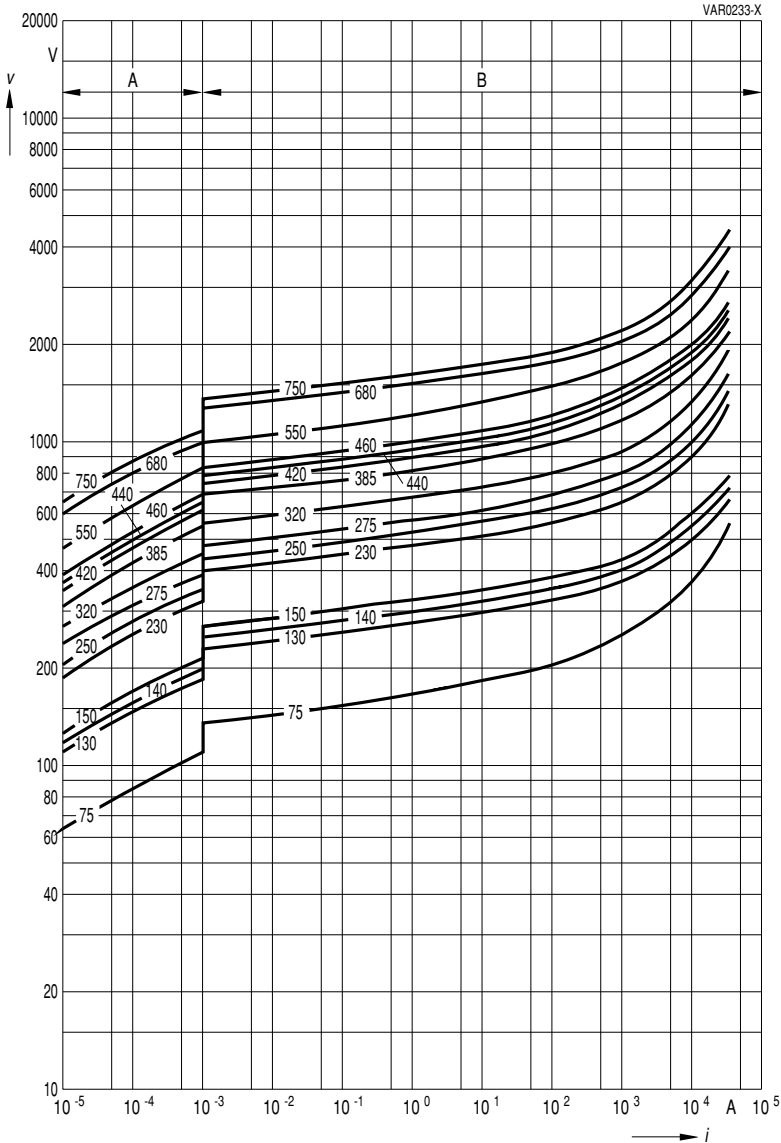
SIOV Metal Oxide Varistors

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)

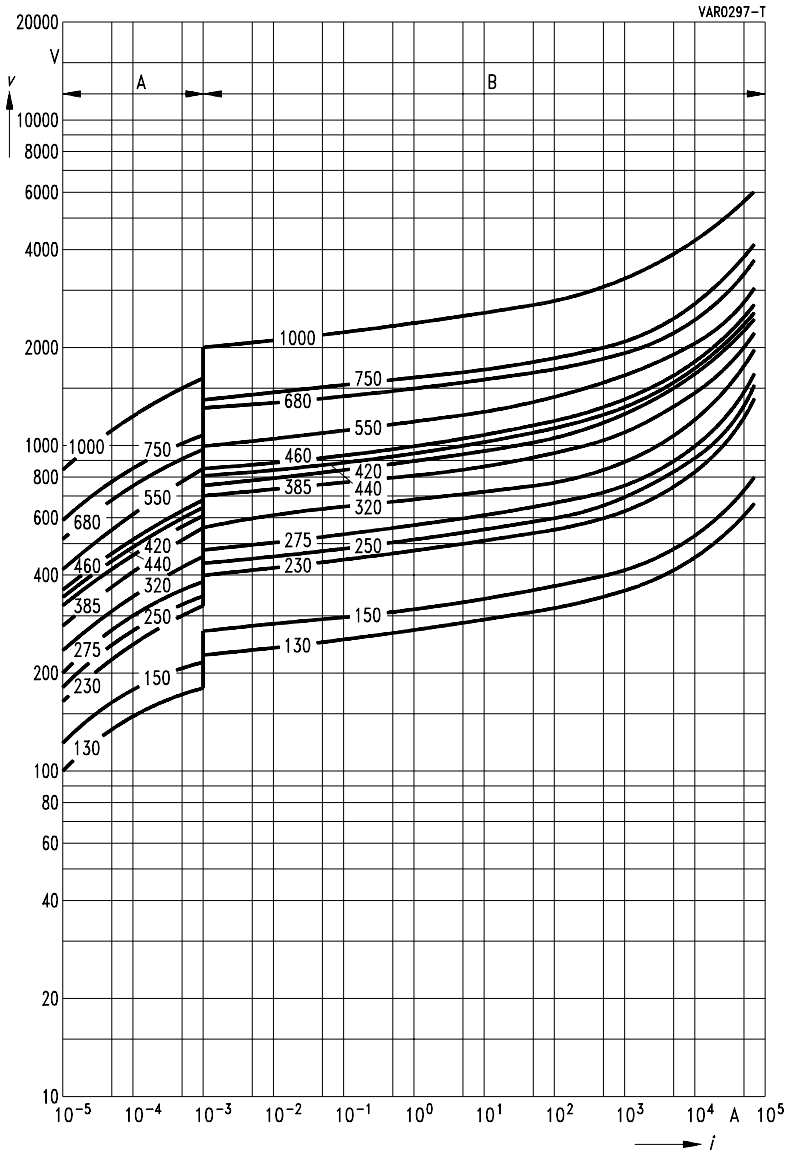
SIOV Metal Oxide Varistors

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

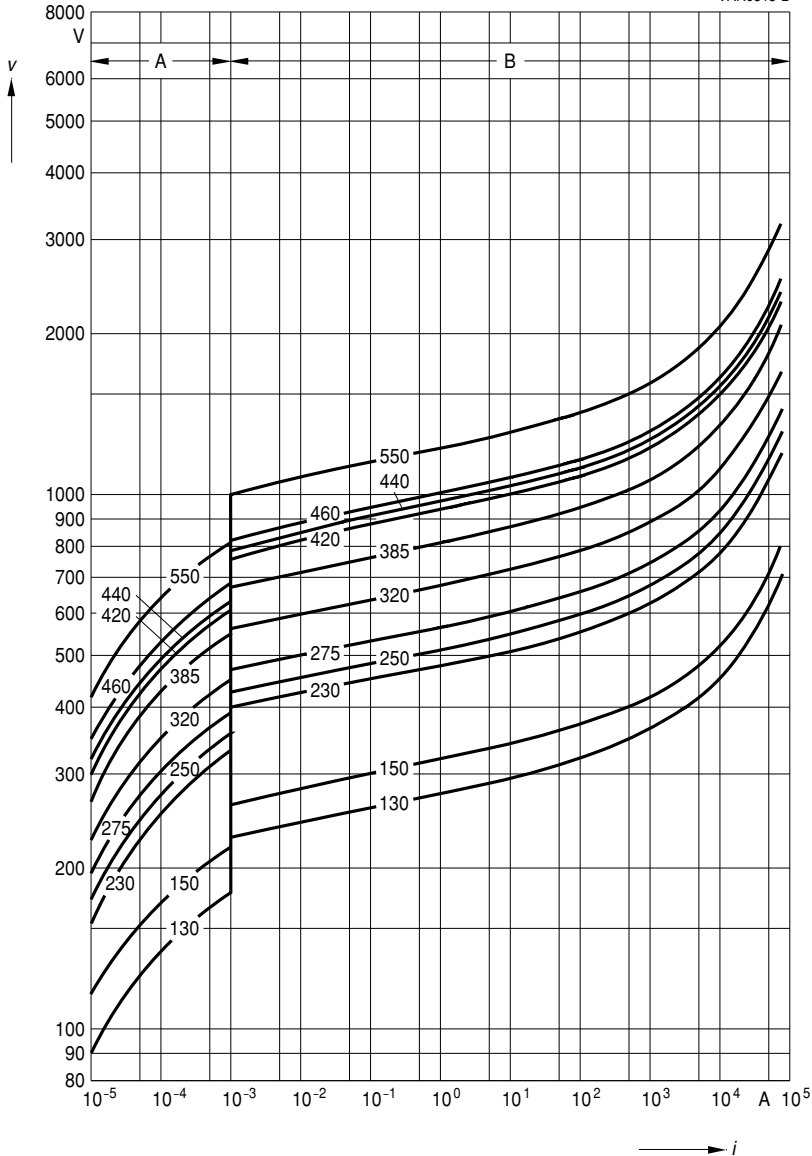
V/I Characteristics

$v = f(i)$ – 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

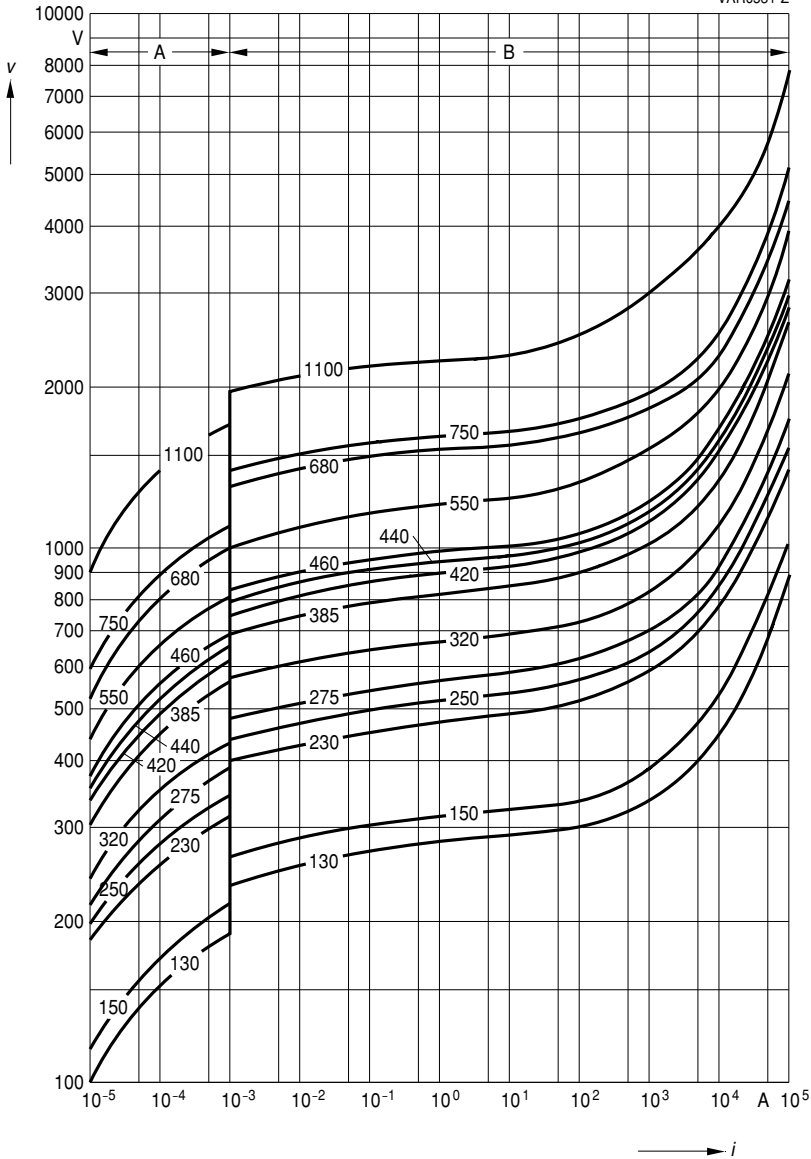
SIOV Metal Oxide Varistors

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



SIOV-B80K130 ... K1100

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