

SIOV metal oxide varistors

Leaded varistors, StandarD series

Series/Type: B722*

Date: December 2011

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StandarD series

Construction

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

Features

- Wide operating voltage range 11 ... 1100 V_{RMS}
- High surge current ratings up to 8 kA
- No derating up to 85 °C ambient temperature
- PSpice models

Approvals

- UL
- CSA (all types ≥ K115)
- VDE
- CQC S05/07 (K11 ... K460), S10/S14 (K11 ... K680), S20 (K11 ... K1000)
- IEC

Delivery mode

- Bulk (standard), taped versions on reel or in Ammo pack upon request.
- For further details refer chapter "Taping, packaging and lead configuration" for leaded varistors.

Options

S10* types with lead spacing 5.0 mm and S20* types with lead spacing 7.5 mm are also available on request.

General technical data

Climatic category	to IEC 60068-1	40/85/56	
Operating temperature	to IEC 61051	-40 + 85	°C
Storage temperature		-40 +125	°C
Electric strength	to IEC 61051	≥ 2.5	kV _{RMS}
Insulation resistance	to IEC 61051	≥ 100	$M\Omega$
Response time		< 25	ns



StandarD series



Electrical specifications and ordering codes Maximum ratings (T_A = 85 °C)

Ordering code	Туре	V_{RMS}	V_{DC}	i _{max}	W _{max}	P _{max}
	(untaped)			(8/20 µs)	(2 ms)	
	SIOV-	V	V	Α	J	W
$V_{RMS} = 11 V$						
B72205S0110K101	S05K11	11	14	100	0.3	0.01
B72207S0110K101	S07K11	11	14	250	0.8	0.02
B72210S0110K101	S10K11	11	14	500	1.7	0.05
B72214S0110K101	S14K11	11	14	1000	3.2	0.10
B72220S0110K101	S20K11	11	14	2000	10.0	0.20
$V_{RMS} = 14 V$						
B72205S0140K101	S05K14	14	18	100	0.4	0.01
B72207S0140K101	S07K14	14	18 ¹⁾	250	0.9	0.02
B72210S0140K101	S10K14	14	18 ¹⁾	500	2.0	0.05
B72214S0140K101	S14K14	14	18 ¹⁾	1000	4.0	0.10
B72220S0140K101	S20K14	14	18 ¹⁾	2000	12.0	0.20
$V_{RMS} = 17 V$						
B72205S0170K101	S05K17	17	22	100	0.5	0.01
B72207S0170K101	S07K17	17	22	250	1.1	0.02
B72210S0170K101	S10K17	17	22	500	2.5	0.05
B72214S0170K101	S14K17	17	22	1000	5.0	0.10
B72220S0170K101	S20K17	17	22	2000	14.0	0.20
$V_{RMS} = 20 V$						
B72205S0200K101	S05K20	20	26	100	0.6	0.01
B72207S0200K101	S07K20	20	26	250	1.3	0.02
B72210S0200K101	S10K20	20	26	500	3.1	0.05
B72214S0200K101	S14K20	20	26	1000	6.0	0.10
B72220S0200K101	S20K20	20	26	2000	18.0	0.20
$V_{RMS} = 25 V$						
B72205S0250K101	S05K25	25	31	100	0.7	0.01
B72207S0250K101	S07K25	25	31	250	1.6	0.02
B72210S0250K101	S10K25	25	31	500	3.7	0.05
B72214S0250K101	S14K25	25	31	1000	7.0	0.10
B72220S0250K101	S20K25	25	31	2000	22.0	0.20
$V_{RMS} = 30 \text{ V}$						
B72205S0300K101	S05K30	30	38	100	0.9	0.01
B72207S0300K101	S07K30	30	38	250	2.0	0.02
B72210S0300K101	S10K30	30	38	500	4.4	0.05
B72214S0300K101	S14K30	30	38	1000	9.0	0.10
B72220S0300K101	S20K30	30	38	2000	26.0	0.20

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



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Leaded varistors

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Characteristics (T_A = 25 °C)

Ordering code	V _v	ΔV_{v}	V _{c,max}	İc	C_{typ}
•	(1 mA)	(1 mA)	(i _c)		(1 kHz)
	V	%	V	Α	pF
V _{RMS} = 11 V					
B72205S0110K101	18	±10	36	1.0	1750
B72207S0110K101	18	±10	36	2.5	2750
B72210S0110K101	18	±10	36	5.0	6250
B72214S0110K101	18	±10	36	10.0	12100
B72220S0110K101	18	±10	36	20.0	23000
V _{RMS} = 14 V					
B72205S0140K101	22	±10	43	1.0	1450
B72207S0140K101	22	±10	43	2.5	2300
B72210S0140K101	22	±10	43	5.0	5200
B72214S0140K101	22	±10	43	10.0	9950
B72220S0140K101	22	±10	43	20.0	19000
$V_{RMS} = 17 \text{ V}$					
B72205S0170K101	27	±10	53	1.0	1200
B72207S0170K101	27	±10	53	2.5	1900
B72210S0170K101	27	±10	53	5.0	4350
B72214S0170K101	27	±10	53	10.0	8200
B72220S0170K101	27	±10	53	20.0	15600
$V_{RMS} = 20 \text{ V}$					
B72205S0200K101	33	±10	65	1.0	980
B72207S0200K101	33	±10	65	2.5	1600
B72210S0200K101	33	±10	65	5.0	3650
B72214S0200K101	33	±10	65	10.0	6800
B72220S0200K101	33	±10	65	20.0	13000
$V_{RMS} = 25 \text{ V}$					

B72205S0250K101

B72207S0250K101 B72210S0250K101

B72214S0250K101

B72220S0250K101

B72207S0300K101

B72210S0300K101

B72214S0300K101

B72220S0300K101

 $V_{BMS} = 30 \text{ V}$ B72205S0300K101 39

39

39

39

39

47

47

47

47

47

±10

±10

±10

±10

±10

±10

±10

±10

±10

±10

77

77

77

77

77

93

93

93

93

93

1.0

2.5

5.0

10.0

20.0

1.0

2.5

5.0

10.0

20.0

850

1400

3200

5850

11100

720

1200

2750

4950

9350



StandarD series



Electrical specifications and ordering codes Maximum ratings (T_A = 85 °C)

Ordering code	Туре	V_{RMS}	V_{DC}	i _{max}	W _{max}	P _{max}
	(untaped)			(8/20 µs)	(2 ms)	
	SIOV-	V	V	Α	J	W
$V_{RMS} = 35 V$						
B72205S0350K101	S05K35	35	45	100	1.1	0.01
B72207S0350K101	S07K35	35	45	250	2.5	0.02
B72210S0350K101	S10K35	35	45	500	5.4	0.05
B72214S0350K101	S14K35	35	45	1000	10.0	0.10
B72220S0350K101	S20K35	35	45	2000	33.0	0.20
$V_{RMS} = 40 \text{ V}$						
B72205S0400K101	S05K40	40	56	100	1.3	0.01
B72207S0400K101	S07K40	40	56	250	3.0	0.02
B72210S0400K101	S10K40	40	56	500	6.4	0.05
B72214S0400K101	S14K40	40	56	1000	13.0	0.10
B72220S0400K101	S20K40	40	56	2000	37.0	0.20
$V_{RMS} = 50 \text{ V}$						
B72205S0500K101	S05K50	50	65	400	1.8	0.10
B72207S0500K101	S07K50	50	65	1200	4.2	0.25
B72210S0500K101	S10K50	50	65	2500	8.4	0.40
B72214S0500K101	S14K50	50	65	4500	15.0	0.60
B72220S0500K101	S20K50	50	65	6500	27.0	1.00
$V_{RMS} = 60 \text{ V}$						
B72205S0600K101	S05K60	60	85	400	2.2	0.10
B72207S0600K101	S07K60	60	85	1200	4.8	0.25
B72210S0600K101	S10K60	60	85	2500	10.0	0.40
B72214S0600K101	S14K60	60	85	4500	17.0	0.60
B72220S0600K101	S20K60	60	85	6500	33.0	1.00
$V_{RMS} = 75 V$						
B72205S0750K101	S05K75	75	100	400	2.5	0.10
B72207S0750K101	S07K75	75	100	1200	5.9	0.25
B72210S0750K101	S10K75	75	100	2500	12.0	0.40
B72214S0750K101	S14K75	75	100	4500	20.0	0.60
B72220S0750K101	S20K75	75	100	6500	40.0	1.00
$V_{RMS} = 95 V$						
B72205S0950K101	S05K95	95	125	400	3.4	0.10
B72207S0950K101	S07K95	95	125	1200	7.6	0.25
B72210S0950K101	S10K95	95	125	2500	15.0	0.40
B72214S0950K101	S14K95	95	125	4500	25.0	0.60
B72220S0950K101	S20K95	95	125	6500	50.0	1.00



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Characteristics ($T_A = 25$ °C)

Ordering code	V _v	ΔV_{v}	V _{c,max}	i _c	C_{typ}
	(1 mA)	(1 mA)	(i _c)		(1 kHz)
	V	%	V	Α	pF
$V_{RMS} = 35 \text{ V}$					
B72205S0350K101	56	±10	110	1.0	620
B72207S0350K101	56	±10	110	2.5	1050
B72210S0350K101	56	±10	110	5.0	2400
B72214S0350K101	56	±10	110	10.0	4200
B72220S0350K101	56	±10	110	20.0	8000
$V_{RMS} = 40 \text{ V}$					
B72205S0400K101	68	±10	135	1.0	520
B72207S0400K101	68	±10	135	2.5	900
B72210S0400K101	68	±10	135	5.0	2100
B72214S0400K101	68	±10	135	10.0	3550
B72220S0400K101	68	±10	135	20.0	6750
$V_{RMS} = 50 \text{ V}$					
B72205S0500K101	82	±10	135	5.0	300
B72207S0500K101	82	±10	135	10.0	530
B72210S0500K101	82	±10	135	25.0	950
B72214S0500K101	82	±10	135	50.0	1800
B72220S0500K101	82	±10	135	100.0	3800
$V_{RMS} = 60 \text{ V}$					
B72205S0600K101	100	±10	165	5.0	250
B72207S0600K101	100	±10	165	10.0	480
B72210S0600K101	100	±10	165	25.0	870
B72214S0600K101	100	±10	165	50.0	1650
B72220S0600K101	100	±10	165	100.0	3600
$V_{RMS} = 75 \text{ V}$					
B72205S0750K101	120	±10	200	5.0	210
B72207S0750K101	120	±10	200	10.0	430
B72210S0750K101	120	±10	200	25.0	720
B72214S0750K101	120	±10	200	50.0	1370
B72220S0750K101	120	±10	200	100.0	2900
$V_{RMS} = 95 \text{ V}$					
B72205S0950K101	150	±10	250	5.0	185
B72207S0950K101	150	±10	250	10.0	335
B72210S0950K101	150	±10	250	25.0	690
B72214S0950K101	150	±10	250	50.0	1200
B72220S0950K101	150	±10	250	100.0	2500



Leaded varistors B722^x

StandarD series



Electrical specifications and ordering codes Maximum ratings (T_A = 85 °C)

Ordering code	Type (untaped)	V_{RMS}	V _{DC}	i _{max} (8/20 μs)	W _{max} (2 ms)	P _{max}
	SIOV-	v	V	Α	(2 1115) J	w
V _{RMS} = 115 V	310 4-	V		17	10	1 **
B72205S0111K101	S05K115	115	150	400	3.6	0.10
B72207S0111K101	S07K115	115	150	1200	8.4	0.10
B72210S0111K101	S10K115	115	150	2500	18.0	0.40
B72214S0111K101	S14K115	115	150	4500	30.0	0.60
B72220S0111K101	S20K115	115	150	6500	60.0	1.00
$V_{RMS} = 130 \text{ V}$	02011110	110	100	10000	00.0	11.00
B72205S0131K101	S05K130	130	170	400	4.2	0.10
B72207S0131K101	S07K130	130	170	1200	9.5	0.25
B72210S0131K101	S10K130	130	170	2500	19.0	0.40
B72214S0131K101	S14K130	130	170	4500	34.0	0.60
B72220S0131K101	S20K130	130	170	8000	74.0	1.00
V _{RMS} = 140 V						
B72205S0141K101	S05K140	140	180	400	4.5	0.10
B72207S0141K101	S07K140	140	180	1200	10.0	0.25
B72210S0141K101	S10K140	140	180	2500	22.0	0.40
B72214S0141K101	S14K140	140	180	4500	36.0	0.60
B72220S0141K101	S20K140	140	180	8000	78.0	1.00
$V_{RMS} = 150 V$						
B72205S0151K101	S05K150	150	200	400	4.9	0.10
B72207S0151K101	S07K150	150	200	1200	11.0	0.25
B72210S0151K101	S10K150	150	200	2500	24.0	0.40
B72214S0151K101	S14K150	150	200	4500	40.0	0.60
B72220S0151K101	S20K150	150	200	8000	85.0	1.00
$V_{RMS} = 175 V$		T	,			_
B72205S0171K101	S05K175	175	225	400	5.6	0.10
B72207S0171K101	S07K175	175	225	1200	13.0	0.25
B72210S0171K101	S10K175	175	225	2500	28.0	0.40
B72214S0171K101	S14K175	175	225	4500	46.0	0.60
B72220S0171K101	S20K175	175	225	8000	98.0	1.00
$V_{RMS} = 230 V$		ı	1			
B72205S0231K101	S05K230	230	300	400	7.2	0.10
B72207S0231K101	S07K230	230	300	1200	17.0	0.25
B72210S0231K101	S10K230	230	300	2500	36.0	0.40
B72214S0231K101	S14K230	230	300	4500	60.0	0.60
B72220S0231K101	S20K230	230	300	8000	130.0	1.00



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StandarD series

Characteristics ($T_A = 25$ °C)

Ordering code	V _v	ΔV_{v}	V _{c.max}	i _c	C_{typ}
Ü	(1 mA)	(1 mA)	(i _c)		(1 kHz)
	V	%	V	Α	pF
V _{RMS} = 115 V					
B72205S0111K101	180	±10	300	5.0	155
B72207S0111K101	180	±10	300	10.0	280
B72210S0111K101	180	±10	300	25.0	580
B72214S0111K101	180	±10	300	50.0	1000
B72220S0111K101	180	±10	300	100.0	2100
V _{RMS} = 130 V					
B72205S0131K101	205	±10	340	5.0	135
B72207S0131K101	205	±10	340	10.0	245
B72210S0131K101	205	±10	340	25.0	500
B72214S0131K101	205	±10	340	50.0	880
B72220S0131K101	205	±10	340	100.0	1850
V _{RMS} = 140 V					
B72205S0141K101	220	±10	360	5.0	125
B72207S0141K101	220	±10	360	10.0	230
B72210S0141K101	220	±10	360	25.0	470
B72214S0141K101	220	±10	360	50.0	820
B72220S0141K101	220	±10	360	100.0	1700
V _{RMS} = 150 V					
B72205S0151K101	240	±10	395	5.0	115
B72207S0151K101	240	±10	395	10.0	210
B72210S0151K101	240	±10	395	25.0	430
B72214S0151K101	240	±10	395	50.0	750
B72220S0151K101	240	±10	395	100.0	1550
$V_{RMS} = 175 \text{ V}$		-			
B72205S0171K101	270	±10	455	5.0	100
B72207S0171K101	270	±10	455	10.0	190
B72210S0171K101	270	±10	455	25.0	380
B72214S0171K101	270	±10	455	50.0	670
B72220S0171K101	270	±10	455	100.0	1350
V _{RMS} = 230 V					
B72205S0231K101	360	±10	595	5.0	70
B72207S0231K101	360	±10	595	10.0	130
B72210S0231K101	360	±10	595	25.0	265
B72214S0231K101	360	±10	595	50.0	530
B72220S0231K101	360	±10	595	100.0	1000



StandarD series



Electrical specifications and ordering codes Maximum ratings (T_A = 85 °C)

Ordering code	Туре	V_{RMS}	V _{DC}	i _{max}	W _{max}	P _{max}
	(untaped)			(8/20 µs)	(2 ms)	
	SIOV-	V	V	Α	J	W
$V_{RMS} = 250 \text{ V}$						
B72205S0251K101	S05K250	250	320	400	8.2	0.10
B72207S0251K101	S07K250	250	320	1200	19.0	0.25
B72210S0251K101	S10K250	250	320	2500	38.0	0.40
B72214S0251K101	S14K250	250	320	4500	65.0	0.60
B72220S0251K101	S20K250	250	320	8000	140.0	1.00
$V_{RMS} = 275 V$						
B72205S0271K101	S05K275	275	350	400	8.6	0.10
B72207S0271K101	S07K275	275	350	1200	21.0	0.25
B72210S0271K101	S10K275	275	350	2500	43.0	0.40
B72214S0271K101	S14K275	275	350	4500	71.0	0.60
B72220S0271K101	S20K275	275	350	8000	151.0	1.00
$V_{RMS} = 300 V$						
B72205S0301K101	S05K300	300	385	400	9.6	0.10
B72207S0301K101	S07K300	300	385	1200	23.0	0.25
B72210S0301K101	S10K300	300	385	2500	47.0	0.40
B72214S0301K101	S14K300	300	385	4500	76.0	0.60
B72220S0301K101	S20K300	300	385	8000	173.0	1.00
$V_{RMS} = 320 \text{ V}$						
B72205S0321K101	S05K320	320	420	400	11.0	0.10
B72207S0321K101	S07K320	320	420	1200	25.0	0.25
B72210S0321K101	S10K320	320	420	2500	50.0	0.40
B72214S0321K101	S14K320	320	420	4500	84.0	0.60
B72220S0321K101	S20K320	320	420	8000	184.0	1.00
$V_{RMS} = 385 V$						
B72205S0381K101	S05K385	385	505	400	13.0	0.10
B72207S0381K101	S07K385	385	505	1200	28.0	0.25
B72210S0381K101	S10K385	385	505	2500	40.0	0.40
B72214S0381K101	S14K385	385	505	4500	80.0	0.60
B72220S0381K101	S20K385	385	505	8000	150.0	1.00
$V_{RMS} = 420 V$						
B72205S0421K101	S05K420	420	560	400	14.0	0.10
B72207S0421K101	S07K420	420	560	1200	32.0	0.25
B72210S0421K101	S10K420	420	560	2500	45.0	0.40
B72214S0421K101	S14K420	420	560	4500	90.0	0.60
B72220S0421K101	S20K420	420	560	8000	175.0	1.00



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StandarD series

Characteristics ($T_A = 25$ °C)

Ordering code	V _v	ΔV_{v}	V _{c,max}	i _c	C_{typ}
· ·	(1 mA)	(1 mA)	(i _c)		(1 kHz)
	V	%	V	Α	pF
V _{RMS} = 250 V					
B72205S0251K101	390	±10	650	5.0	65
B72207S0251K101	390	±10	650	10.0	120
B72210S0251K101	390	±10	650	25.0	245
B72214S0251K101	390	±10	650	50.0	490
B72220S0251K101	390	±10	650	100.0	940
V _{RMS} = 275 V					
B72205S0271K101	430	±10	710	5.0	60
B72207S0271K101	430	±10	710	10.0	110
B72210S0271K101	430	±10	710	25.0	220
B72214S0271K101	430	±10	710	50.0	440
B72220S0271K101	430	±10	710	100.0	850
$V_{RMS} = 300 \text{ V}$					
B72205S0301K101	470	±10	775	5.0	55
B72207S0301K101	470	±10	775	10.0	100
B72210S0301K101	470	±10	775	25.0	200
B72214S0301K101	470	±10	775	50.0	400
B72220S0301K101	470	±10	775	100.0	780
$V_{RMS} = 320 \text{ V}$					
B72205S0321K101	510	±10	840	5.0	50
B72207S0321K101	510	±10	840	10.0	90
B72210S0321K101	510	±10	840	25.0	185
B72214S0321K101	510	±10	840	50.0	370
B72220S0321K101	510	±10	840	100.0	720
V _{RMS} = 385 V					
B72205S0381K101	620	±10	1025	5.0	45
B72207S0381K101	620	±10	1025	10.0	85
B72210S0381K101	620	±10	1025	25.0	175
B72214S0381K101	620	±10	1025	50.0	315
B72220S0381K101	620	±10	1025	100.0	600
V _{RMS} = 420 V					
B72205S0421K101	680	±10	1120	5.0	40
B72207S0421K101	680	±10	1120	10.0	75
B72210S0421K101	680	±10	1120	25.0	165
B72214S0421K101	680	±10	1120	50.0	290
B72220S0421K101	680	±10	1120	100.0	550



StandarD series



Electrical specifications and ordering codes Maximum ratings (T_A = 85 °C)

Ordering code	Type	V_{RMS}	V_{DC}	i _{max}	W_{max}	P _{max}
	(untaped)			(8/20 µs)	(2 ms)	
	SIOV-	V	V	Α	J	W
V _{RMS} = 440 V						
B72205S0441K101	S05K440	440	585	400	16.0	0.10
B72207S0441K101	S07K440	440	585	1200	34.0	0.25
B72210S0441K101	S10K440	440	585	2500	47.0	0.40
B72214S0441K101	S14K440	440	585	4500	95.0	0.60
B72220S0441K101	S20K440	440	585	8000	185.0	1.00
$V_{RMS} = 460 V$						
B72205S0461K101	S05K460	460	615	400	18.0	0.10
B72207S0461K101	S07K460	460	615	1200	36.0	0.25
B72210S0461K101	S10K460	460	615	2500	50.0	0.40
B72214S0461K101	S14K460	460	615	4500	100.0	0.60
B72220S0461K101	S20K460	460	615	8000	195.0	1.00
$V_{RMS} = 510 \text{ V}$						
B72210S0511K101	S10K510	510	670	2500	55.0	0.40
B72214S0511K101	S14K510	510	670	4500	110.0	0.60
B72220S0511K101	S20K510	510	670	6500	190.0	1.00
$V_{RMS} = 550 \text{ V}$						
B72210S0551K101	S10K550	550	745	2500	60.0	0.40
B72214S0551K101	S14K550	550	745	4500	120.0	0.60
B72220S0551K101	S20K550	550	745	6500	210.0	1.00
$V_{RMS} = 625 V$						
B72210S0621K101	S10K625	625	825	2500	68.0	0.40
B72214S0621K101	S14K625	625	825	4500	130.0	0.60
B72220S0621K101	S20K625	625	825	6500	230.0	1.00
$V_{RMS} = 680 V$						
B72210S0681K101	S10K680	680	895	2500	72.0	0.40
B72214S0681K101	S14K680	680	895	4500	140.0	0.60
B72220S0681K101	S20K680	680	895	6500	250.0	1.00
V _{RMS} = 1100 V						
B72214S0102K101	S14K1000 ¹⁾	1100	1465	4500	230.0	0.60
B72220S0102K101	S20K1000 ¹⁾	1100	1465	6500	410.0	1.00

¹⁾ Operating voltage differs from type designation.



B722*



Leaded varistors

StandarD series

Characteristics ($T_A = 25$ °C)

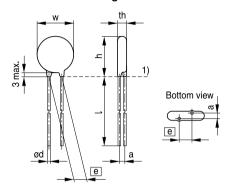
Ordering code	V _v	ΔV_{v}	V _{c,max}	i _c	C_{typ}
· ·	(1 mA)	(1 mA)	(i _c)		(1 kHz)
	V	%	V	Α	pF
V _{RMS} = 440 V					
B72205S0441K101	715	±10	1180	5.0	37
B72207S0441K101	715	±10	1180	10.0	72
B72210S0441K101	715	±10	1180	25.0	158
B72214S0441K101	715	±10	1180	50.0	275
B72220S0441K101	715	±10	1180	100.0	530
V _{RMS} = 460 V					
B72205S0461K101	750	±10	1240	5.0	35
B72207S0461K101	750	±10	1240	10.0	70
B72210S0461K101	750	±10	1240	25.0	150
B72214S0461K101	750	±10	1240	50.0	260
B72220S0461K101	750	±10	1240	100.0	500
$V_{RMS} = 510 \text{ V}$					
B72210S0511K101	820	±10	1355	25.0	140
B72214S0511K101	820	±10	1355	50.0	240
B72220S0511K101	820	±10	1355	100.0	460
$V_{RMS} = 550 \text{ V}$					
B72210S0551K101	910	±10	1500	25.0	120
B72214S0551K101	910	±10	1500	50.0	215
B72220S0551K101	910	±10	1500	100.0	410
V _{RMS} = 625 V					
B72210S0621K101	1000	±10	1650	25.0	110
B72214S0621K101	1000	±10	1650	50.0	200
B72220S0621K101	1000	±10	1650	100.0	380
$V_{RMS} = 680 \text{ V}$					
B72210S0681K101	1100	±10	1815	25.0	100
B72214S0681K101	1100	±10	1815	50.0	180
B72220S0681K101	1100	±10	1815	100.0	340
V _{RMS} = 1100 V					
B72214S0102K101	1800	±10	2970	50.0	110
B72220S0102K101	1800	±10	2970	100.0	210



StandarD series



Dimensional drawings



1) Seating plane to IEC 60717

Weight

Nominal diameter	V_{RMS}	Weight
mm	V	g
5	11 460	0.3 0.7
7	11 460 11 460	0.3 0.7 0.4 1.1
10		1.0 3.0 1.4 7.6
14	11 680 11 1000	1.4 7.6
20	11 1000	2.7 15.7

The weight of varistors in between these voltage classes can be interpolated.

VAR0408-C-E

Dimensions

Ordering code	[e] ±1	a ±1	W _{max}	th _{max}	h _{max}	I _{min}	$d \pm 0.05$		
	mm	mm	mm	mm	mm	mm	mm		
V _{RMS} = 11 V	V _{RMS} = 11 V								
B72205S0110K101	5.0	1.2	7.0	3.3	8.5	25.0	0.6		
B72207S0110K101	5.0	1.2	9.0	3.4	11.0	25.0	0.6		
B72210S0110K101	7.5	1.4	12.0	4.0	14.5	25.0	0.8		
B72214S0110K101	7.5	1.4	15.5	4.0	18.5	25.0	0.8		
B72220S0110K101	10.0	1.5	21.5	4.5	25.5	25.0	1.0		
V _{RMS} = 14 V									
B72205S0140K101	5.0	1.3	7.0	3.4	8.5	25.0	0.6		
B72207S0140K101	5.0	1.3	9.0	3.5	11.0	25.0	0.6		
B72210S0140K101	7.5	1.5	12.0	4.2	14.5	25.0	0.8		
B72214S0140K101	7.5	1.5	15.5	4.2	18.5	25.0	0.8		
B72220S0140K101	10.0	1.6	21.5	4.6	25.5	25.0	1.0		
V _{RMS} = 17 V									
B72205S0170K101	5.0	1.4	7.0	3.5	8.5	25.0	0.6		
B72207S0170K101	5.0	1.4	9.0	3.6	11.0	25.0	0.6		
B72210S0170K101	7.5	1.6	12.0	4.4	14.5	25.0	0.8		
B72214S0170K101	7.5	1.7	15.5	4.4	18.5	25.0	0.8		
B72220S0170K101	10.0	1.8	21.5	4.8	25.5	25.0	1.0		
V _{RMS} = 20 V									
B72205S0200K101	5.0	1.2	7.0	3.5	8.5	25.0	0.6		
B72207S0200K101	5.0	1.2	9.0	3.6	11.0	25.0	0.6		
B72210S0200K101	7.5	1.8	12.0	4.5	14.5	25.0	0.8		
B72214S0200K101	7.5	1.9	15.5	4.6	18.5	25.0	0.8		
B72220S0200K101	10.0	2.1	21.5	5.1	25.5	25.0	1.0		





Leaded varistors B722* StandarD series

Name	Ordering code	[e] ±1	a ±1	W _{max}	th _{max}	h _{max}	I _{min}	d ±0.05
B72205S0250K101	· ·	mm	mm				mm	mm
B72207S0250K101	V _{RMS} = 25 V				•		•	
B72210S0250K101	B72205S0250K101	5.0	1.3	7.0	3.6	8.5	25.0	0.6
B72214S0250K101	B72207S0250K101	5.0	1.3	9.0	3.7	11.0	25.0	0.6
B72220S0250K101	B72210S0250K101	7.5	1.6	12.0	4.2	14.5	25.0	0.8
V _{RIMS} = 30 V B72205S0300K101 5.0 1.5 7.0 3.6 8.5 25.0 0.6 B72207S0300K101 5.0 1.5 9.0 3.7 11.0 25.0 0.6 B72210S0300K101 7.5 1.7 12.0 4.4 14.5 25.0 0.8 B72214S0300K101 7.5 1.8 15.5 4.4 18.5 25.0 0.8 B7220S03030K101 10.0 2.0 21.5 4.9 25.5 25.0 1.0 V _{RMS} = 35 V 8 87220S0350K101 5.0 1.6 9.0 3.9 11.0 25.0 0.6 B7221S0S0350K101 7.5 1.8 12.0 4.4 14.5 25.0 0.6 B72214S0350K101 7.5 1.8 12.0 4.4 14.5 25.0 0.8 B72220S03050K101 7.5 2.0 15.5 4.5 18.5 25.0 0.8 B72220S03040K101 5.0 1.8 7.0 3.9	B72214S0250K101	7.5	1.7	15.5	4.2	18.5	25.0	0.8
B72205S0300K101 5.0 1.5 7.0 3.6 8.5 25.0 0.6	B72220S0250K101	10.0	1.8	21.5	4.7	25.5	25.0	1.0
B72210S0300K101 5.0 1.5 9.0 3.7 11.0 25.0 0.6 B722120S0300K101 7.5 1.7 12.0 4.4 14.5 25.0 0.8 B72214S0300K101 7.5 1.8 15.5 4.4 18.5 25.0 0.8 B72220S0300K101 10.0 2.0 21.5 4.9 25.5 25.0 1.0	$V_{RMS} = 30 \text{ V}$							
B72210S0300K101 7.5 1.7 12.0 4.4 14.5 25.0 0.8 B72214S0300K101 7.5 1.8 15.5 4.4 18.5 25.0 0.8 B72220S0300K101 10.0 2.0 21.5 4.9 25.5 25.0 1.0 V _{RMS} = 35 V B7220S0350K101 5.0 1.6 7.0 3.7 8.5 25.0 0.6 B72210S0350K101 5.0 1.6 9.0 3.9 11.0 25.0 0.6 B72214S0350K101 7.5 1.8 12.0 4.4 14.5 25.0 0.8 B72214S0350K101 7.5 2.0 15.5 4.5 18.5 25.0 0.8 B72220S0350K101 10.0 2.2 21.5 5.1 25.5 25.0 1.0 V _{RMS} = 40 V 8 8.5 25.0 0.6 8 8.5 25.0 0.6 B722050400K101 5.0 1.8 9.0 4.1 11.0	B72205S0300K101	5.0	1.5	7.0	3.6	8.5	25.0	0.6
B72214S0300K101	B72207S0300K101	5.0	1.5	9.0	3.7	11.0	25.0	0.6
B72220S0300K101	B72210S0300K101	7.5	1.7	12.0	4.4	14.5	25.0	0.8
V _{RMS} = 35 V B72205S0350K101 5.0 1.6 7.0 3.7 8.5 25.0 0.6 B72210S0350K101 5.0 1.6 9.0 3.9 11.0 25.0 0.6 B72210S0350K101 7.5 1.8 12.0 4.4 14.5 25.0 0.8 B72214S0350K101 7.5 2.0 15.5 4.5 18.5 25.0 0.8 B72220S0350K101 10.0 2.2 21.5 5.1 25.5 25.0 0.8 B7220S0350K101 10.0 2.2 21.5 5.5 25.0 1.0 V _{RMS} = 40 V 8 8 7.0 3.9 8.5 25.0 1.0 B7220TS0400K101 5.0 1.8 7.0 3.9 8.5 25.0 0.6 B72214S0400K101 7.5 2.1 12.0 4.8 14.5 25.0 0.8 B72214S0400K101 7.5 2.2 15.5 4.9 18.5 25.0 0.8 <tr< td=""><td>B72214S0300K101</td><td>7.5</td><td>1.8</td><td>15.5</td><td>4.4</td><td>18.5</td><td>25.0</td><td>0.8</td></tr<>	B72214S0300K101	7.5	1.8	15.5	4.4	18.5	25.0	0.8
B72205S0350K101	B72220S0300K101	10.0	2.0	21.5	4.9	25.5	25.0	1.0
B72207S0350K101	$V_{RMS} = 35 \text{ V}$							
B72210S0350K101	B72205S0350K101	5.0	1.6	7.0	3.7	8.5	25.0	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72207S0350K101	5.0	1.6	9.0	3.9	11.0	25.0	0.6
B72220S0350K101	B72210S0350K101	7.5	1.8	12.0	4.4	14.5	25.0	0.8
V _{RMS} = 40 V B72205S0400K101 5.0 1.8 7.0 3.9 8.5 25.0 0.6 B72207S0400K101 5.0 1.8 9.0 4.1 11.0 25.0 0.6 B72210S0400K101 7.5 2.1 12.0 4.8 14.5 25.0 0.8 B72214S0400K101 7.5 2.2 15.5 4.9 18.5 25.0 0.8 B72220S0400K101 10.0 2.4 21.5 5.4 25.5 25.0 1.0 V _{RMS} = 50 V 8 8 5.0 2.5 25.0 1.0 B72207S0500K101 5.0 1.2 7.0 3.3 8.5 25.0 0.6 B72214S0500K101 7.5 1.4 12.0 3.9 14.5 25.0 0.8 B72214S0500K101 7.5 1.4 15.5 3.9 18.5 25.0 0.8 B72214S0500K101 7.5 1.4 15.5 3.9 18.5 25.0 0.8 <t< td=""><td>B72214S0350K101</td><td>7.5</td><td>2.0</td><td>15.5</td><td>4.5</td><td>18.5</td><td>25.0</td><td>0.8</td></t<>	B72214S0350K101	7.5	2.0	15.5	4.5	18.5	25.0	0.8
B72205S0400K101	B72220S0350K101	10.0	2.2	21.5	5.1	25.5	25.0	1.0
B72207S0400K101 5.0 1.8 9.0 4.1 11.0 25.0 0.6 B72210S0400K101 7.5 2.1 12.0 4.8 14.5 25.0 0.8 B72214S0400K101 7.5 2.2 15.5 4.9 18.5 25.0 0.8 B72220S0400K101 10.0 2.4 21.5 5.4 25.5 25.0 1.0 V _{RMS} = 50 V B72207S0500K101 5.0 1.2 7.0 3.3 8.5 25.0 0.6 B72207S0500K101 5.0 1.2 9.0 3.3 11.0 25.0 0.6 B72214S0500K101 7.5 1.4 12.0 3.9 14.5 25.0 0.8 B72220S05050K101 7.5 1.4 15.5 3.9 18.5 25.0 0.8 B7220S05060K101 7.0 1.5 21.5 4.3 25.5 25.0 1.0 V _{RMS} = 60 V 8 7.0 3.3 8.5 25.0 <t< td=""><td>$V_{RMS} = 40 \text{ V}$</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	$V_{RMS} = 40 \text{ V}$							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72205S0400K101	5.0	1.8	7.0	3.9	8.5	25.0	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72207S0400K101	5.0	1.8	9.0	4.1	11.0	25.0	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72210S0400K101	7.5	2.1	12.0	4.8	14.5	25.0	0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72214S0400K101	7.5	2.2	15.5	4.9	18.5	25.0	0.8
B72205S0500K101 5.0 1.2 7.0 3.3 8.5 25.0 0.6 B72207S0500K101 5.0 1.2 9.0 3.3 11.0 25.0 0.6 B72210S0500K101 7.5 1.4 12.0 3.9 14.5 25.0 0.8 B72214S0500K101 7.5 1.4 15.5 3.9 18.5 25.0 0.8 B72220S0500K101 10.0 1.5 21.5 4.3 25.5 25.0 1.0 V _{RMS} = 60 V B7220S0600K101 5.0 1.2 7.0 3.3 8.5 25.0 0.6 B72207S0600K101 5.0 1.2 9.0 3.3 11.0 25.0 0.6 B72210S0600K101 7.5 1.4 12.0 4.0 14.5 25.0 0.8 B72214S0600K101 7.5 1.5 15.5 4.0 18.5 25.0 0.8 B72220S0600K101 10.0 1.6 21.5 4.4 25.5 25.0 1.0 </td <td>B72220S0400K101</td> <td>10.0</td> <td>2.4</td> <td>21.5</td> <td>5.4</td> <td>25.5</td> <td>25.0</td> <td>1.0</td>	B72220S0400K101	10.0	2.4	21.5	5.4	25.5	25.0	1.0
B72207S0500K101 5.0 1.2 9.0 3.3 11.0 25.0 0.6 B72210S0500K101 7.5 1.4 12.0 3.9 14.5 25.0 0.8 B72214S0500K101 7.5 1.4 15.5 3.9 18.5 25.0 0.8 B72220S05060K101 10.0 1.5 21.5 4.3 25.5 25.0 1.0 V _{RMS} = 60 V B72207S0600K101 5.0 1.2 7.0 3.3 8.5 25.0 0.6 B72207S0600K101 5.0 1.2 9.0 3.3 11.0 25.0 0.6 B72210S0600K101 7.5 1.4 12.0 4.0 14.5 25.0 0.8 B72214S0600K101 7.5 1.5 15.5 4.0 18.5 25.0 0.8 B72220S0600K101 10.0 1.6 21.5 4.4 25.5 25.0 1.0 V _{RMS} = 75 V B72207S0750K101 5.0 1.3 7.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72205S0500K101	5.0	1.2	7.0	3.3	8.5	25.0	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72207S0500K101	5.0	1.2	9.0	3.3	11.0	25.0	0.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72210S0500K101	7.5	1.4	12.0	3.9	14.5	25.0	0.8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72214S0500K101	7.5	1.4	15.5	3.9	18.5	25.0	0.8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72220S0500K101	10.0	1.5	21.5	4.3	25.5	25.0	1.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{RMS} = 60 \text{ V}$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	B72205S0600K101	5.0	1.2	7.0	3.3	8.5	25.0	0.6
B72214S0600K101 7.5 1.5 15.5 4.0 18.5 25.0 0.8 B72220S0600K101 10.0 1.6 21.5 4.4 25.5 25.0 1.0 V _{RMS} = 75 V B72205S0750K101 5.0 1.3 7.0 3.4 8.5 25.0 0.6 B72207S0750K101 5.0 1.3 9.0 3.6 11.0 25.0 0.6 B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72207S0600K101	5.0	1.2	9.0	3.3	11.0	25.0	0.6
B72220S0600K101 10.0 1.6 21.5 4.4 25.5 25.0 1.0 V _{RMS} = 75 V B72205S0750K101 5.0 1.3 7.0 3.4 8.5 25.0 0.6 B72207S0750K101 5.0 1.3 9.0 3.6 11.0 25.0 0.6 B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72210S0600K101	7.5	1.4	12.0	4.0	14.5	25.0	0.8
V _{RMS} = 75 V B72205S0750K101 5.0 1.3 7.0 3.4 8.5 25.0 0.6 B72207S0750K101 5.0 1.3 9.0 3.6 11.0 25.0 0.6 B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72214S0600K101	7.5	1.5	15.5	4.0	18.5	25.0	0.8
B72205S0750K101 5.0 1.3 7.0 3.4 8.5 25.0 0.6 B72207S0750K101 5.0 1.3 9.0 3.6 11.0 25.0 0.6 B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72220S0600K101	10.0	1.6	21.5	4.4	25.5	25.0	1.0
B72207S0750K101 5.0 1.3 9.0 3.6 11.0 25.0 0.6 B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	$V_{RMS} = 75 \text{ V}$							
B72210S0750K101 7.5 1.5 12.0 4.2 14.5 25.0 0.8 B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72205S0750K101	5.0	1.3	7.0	3.4	8.5	25.0	0.6
B72214S0750K101 7.5 1.5 15.5 4.2 18.5 25.0 0.8	B72207S0750K101	5.0	1.3	9.0	3.6	11.0	25.0	0.6
	B72210S0750K101	7.5	1.5	12.0	4.2	14.5	25.0	0.8
B72220S0750K101 10.0 1.6 21.5 4.6 25.5 25.0 1.0	B72214S0750K101	7.5	1.5	15.5	4.2	18.5	25.0	0.8
	B72220S0750K101	10.0	1.6	21.5	4.6	25.5	25.0	1.0



StandarD series



Ordering code	[e] ±1	a ±1	W _{max}	th _{max}	h _{max}	I _{min}	d ±0.05
ordoring oddo	mm	mm	mm	mm	mm	mm	mm
V _{RMS} = 95 V	<u> </u>		1				
B72205S0950K101	5.0	1.3	7.0	3.4	8.5	25.0	0.6
B72207S0950K101	5.0	1.3	9.0	3.4	11.0	25.0	0.6
B72210S0950K101	7.5	1.5	12.0	4.0	14.5	25.0	0.8
B72214S0950K101	7.5	1.5	15.5	4.0	18.5	25.0	0.8
B72220S0950K101	10.0	1.6	21.5	4.5	25.5	25.0	1.0
V _{RMS} = 115 V							
B72205S0111K101	5.0	1.5	7.0	3.6	8.5	25.0	0.6
B72207S0111K101	5.0	1.5	9.0	3.6	11.0	25.0	0.6
B72210S0111K101	7.5	1.6	12.0	4.2	14.5	25.0	0.8
B72214S0111K101	7.5	1.7	15.5	4.2	18.5	25.0	0.8
B72220S0111K101	10.0	1.8	21.5	4.6	25.5	25.0	1.0
V _{RMS} = 130 V							
B72205S0131K101	5.0	1.6	7.0	3.6	8.5	25.0	0.6
B72207S0131K101	5.0	1.6	9.0	3.6	11.0	25.0	0.6
B72210S0131K101	7.5	1.8	12.0	4.2	14.5	25.0	0.8
B72214S0131K101	7.5	1.9	15.5	4.2	18.5	25.0	0.8
B72220S0131K101	10.0	2.0	21.5	4.7	25.5	25.0	1.0
V _{RMS} = 140 V						,	
B72205S0141K101	5.0	1.7	7.0	3.7	8.5	25.0	0.6
B72207S0141K101	5.0	1.7	9.0	3.7	11.0	25.0	0.6
B72210S0141K101	7.5	1.9	12.0	4.3	14.5	25.0	0.8
B72214S0141K101	7.5	2.0	15.5	4.3	18.5	25.0	0.8
B72220S0141K101	10.0	2.1	21.5	4.8	25.5	25.0	1.0
$V_{RMS} = 150 \text{ V}$			1				
B72205S0151K101	5.0	1.8	7.0	3.8	8.5	25.0	0.6
B72207S0151K101	5.0	1.8	9.0	3.8	11.0	25.0	0.6
B72210S0151K101	7.5	2.0	12.0	4.4	14.5	25.0	0.8
B72214S0151K101	7.5	2.1	15.5	4.4	18.5	25.0	0.8
B72220S0151K101	10.0	2.2	21.5	4.9	25.5	25.0	1.0
$V_{RMS} = 175 \text{ V}$							
B72205S0171K101	5.0	2.0	7.0	3.9	8.5	25.0	0.6
B72207S0171K101	5.0	2.0	9.0	4.0	11.0	25.0	0.6
B72210S0171K101	7.5	2.2	12.0	4.6	14.5	25.0	0.8
B72214S0171K101	7.5	2.2	15.5	4.6	18.5	25.0	0.8
B72220S0171K101	10.0	2.3	21.5	5.0	25.5	25.0	1.0
V _{RMS} = 230 V							
B72205S0231K101	5.0	1.8	7.0	4.0	8.5	25.0	0.6
B72207S0231K101	5.0	1.8	9.0	4.0	11.0	25.0	0.6
B72210S0231K101	7.5	2.0	12.0	4.7	14.5	25.0	0.8
B72214S0231K101	7.5	2.0	15.5	4.7	18.5	25.0	0.8
B72220S0231K101	10.0	2.1	21.5	5.1	25.5	25.0	1.0





Leaded varistors

StandarD series

istors B722*

Ordering code	[e] ±1	a ±1	W _{max}	th _{max}	h _{max}	I _{min}	d ±0.05
· ·	mm	mm	mm	mm	mm	mm	mm
V _{RMS} = 250 V			_				
B72205S0251K101	5.0	1.8	7.0	4.2	8.5	25.0	0.6
B72207S0251K101	5.0	1.8	9.0	4.2	11.0	25.0	0.6
B72210S0251K101	7.5	2.0	12.0	4.8	14.5	25.0	0.8
B72214S0251K101	7.5	2.0	15.5	4.8	18.5	25.0	0.8
B72220S0251K101	10.0	2.2	21.5	5.3	25.5	25.0	1.0
V _{RMS} = 275 V							
B72205S0271K101	5.0	2.0	7.0	4.3	8.5	25.0	0.6
B72207S0271K101	5.0	2.0	9.0	4.4	11.0	25.0	0.6
B72210S0271K101	7.5	2.2	12.0	5.0	14.5	25.0	0.8
B72214S0271K101	7.5	2.2	15.5	5.0	18.5	25.0	0.8
B72220S0271K101	10.0	2.3	21.5	5.4	25.5	25.0	1.0
V _{RMS} = 300 V							
B72205S0301K101	5.0	2.1	7.0	4.5	8.5	25.0	0.6
B72207S0301K101	5.0	2.1	9.0	4.5	11.0	25.0	0.6
B72210S0301K101	7.5	2.3	12.0	5.1	14.5	25.0	0.8
B72214S0301K101	7.5	2.3	15.5	5.2	18.5	25.0	0.8
B72220S0301K101	10.0	2.4	21.5	5.6	25.5	25.0	1.0
V _{RMS} = 320 V							
B72205S0321K101	5.0	2.3	7.0	4.8	9.0	25.0	0.6
B72207S0321K101	5.0	2.3	9.0	4.8	11.5	25.0	0.6
B72210S0321K101	7.5	2.4	12.0	5.4	15.0	25.0	0.8
B72214S0321K101	7.5	2.4	15.5	5.4	19.0	25.0	0.8
B72220S0321K101	10.0	2.6	21.5	5.8	25.5	25.0	1.0
$V_{RMS} = 385 \text{ V}$							
B72205S0381K101	5.0	2.5	7.0	5.1	9.0	25.0	0.6
B72207S0381K101	5.0	2.5	9.0	5.2	11.5	25.0	0.6
B72210S0381K101	7.5	2.7	12.0	5.8	15.0	25.0	0.8
B72214S0381K101	7.5	2.7	15.5	5.9	19.0	25.0	0.8
B72220S0381K101	10.0	2.8	21.5	6.3	26.0	25.0	1.0
V _{RMS} = 420 V							
B72205S0421K101	5.0	2.8	7.0	5.4	9.0	25.0	0.6
B72207S0421K101	5.0	2.8	9.0	5.4	11.5	25.0	0.6
B72210S0421K101	7.5	2.9	12.0	6.1	15.0	25.0	0.8
B72214S0421K101	7.5	2.9	15.5	6.1	19.0	25.0	0.8
B72220S0421K101	10.0	3.1	21.5	6.5	26.0	25.0	1.0
V _{RMS} = 440 V							
B72205S0441K101	5.0	2.8	7.0	5.5	9.0	25.0	0.6
B72207S0441K101	5.0	2.8	9.0	5.5	11.5	25.0	0.6
B72210S0441K101	7.5	3.0	12.0	6.2	15.0	25.0	0.8



StandarD series

Ordering code	[e] ±1	a ±1	W _{max}	th _{max}	h _{max}	I _{min}	d ±0.05	
	mm	mm	mm	mm	mm	mm	mm	
$V_{RMS} = 440 \text{ V}$	V _{RMS} = 440 V							
B72214S0441K101	7.5	3.0	15.5	6.3	19.0	25.0	0.8	
B72220S0441K101	10.0	3.1	21.5	6.7	26.0	25.0	1.0	
$V_{RMS} = 460 \text{ V}$								
B72205S0461K101	5.0	3.0	7.0	5.7	9.0	25.0	0.6	
B72207S0461K101	5.0	3.0	9.0	5.7	11.5	25.0	0.6	
B72210S0461K101	7.5	3.1	12.0	6.3	15.0	25.0	0.8	
B72214S0461K101	7.5	3.1	15.5	6.4	19.0	25.0	0.8	
B72220S0461K101	10.0	3.3	21.5	6.8	26.0	25.0	1.0	
V _{RMS} = 510 V								
B72210S0511K101	7.5	3.4	12.0	6.7	15.0	25.0	0.8	
B72214S0511K101	7.5	3.4	15.5	6.8	19.0	25.0	0.8	
B72220S0511K101	10.0	3.5	21.5	7.1	26.0	25.0	1.0	
$V_{RMS} = 550 \text{ V}$								
B72210S0551K101	7.5	3.7	12.0	7.1	15.0	25.0	0.8	
B72214S0551K101	7.5	3.7	15.5	7.2	19.0	25.0	0.8	
B72220S0551K101	10.0	3.9	21.5	7.5	26.0	25.0	1.0	
$V_{RMS} = 625 \text{ V}$								
B72210S0621K101	7.5	4.0	12.0	7.5	15.0	25.0	0.8	
B72214S0621K101	7.5	4.0	15.5	7.5	19.0	25.0	0.8	
B72220S0621K101	10.0	4.2	21.5	7.9	26.0	25.0	1.0	
$V_{RMS} = 680 \text{ V}$								
B72210S0681K101	7.5	4.4	12.0	7.9	15.0	25.0	0.8	
B72214S0681K101	7.5	4.4	15.5	8.0	19.0	25.0	0.8	
B72220S0681K101	10.0	4.5	21.5	8.4	26.0	25.0	1.0	
V _{RMS} = 1100 V								
B72214S0102K101	7.5	6.7	15.5	11.0	20.5	25.0	0.8	
B72220S0102K101	10.0	6.9	21.5	11.4	28.5	25.0	1.0	





Leaded varistors StandarD series

ed varistors B722*

Reliability data

Test	Test methods/conditions	Requirement
Varistor voltage	The voltage between two terminals with	To meet the specified value
	the specified measuring current applied is called V_{v} (1 mA _{DC} @ 0.2 2 s).	
Clamping voltage	The maximum voltage between two terminals with the specified standard impulse current (8/20 µs) applied.	To meet the specified value
Endurance at upper	1000 h at UCT	∆V/V (1 mA) ≤10%
category temperature	After having continuously applied the maximum allowable AC voltage at UCT ± 2 °C for 1000 h, the specimen shall be stored at room temperature and normal humidity for 1 to 2 h. Thereafter, the change of $V_{\rm V}$ shall be measured.	
Surge current derating, 8/20 µs	10 surge currents (8/20 μs), unipolar, interval 30 s, amplitude corresponding	I∆V/V (1 mA)I ≤10% (measured in direction of
	to derating curve for 10 impulses at	surge current)
	20 μs	No visible damage
Surge current derating,	10 surge currents (2 ms), unipolar,	∆V/V (1 mA) ≤10%
2 ms	interval 120 s, amplitude corresponding to derating curve for 10 impulses at	(measured in direction of
	2 ms	surge current)
	2 110	No visible damage
Electric strength	IEC 61051-1, test 4.9.2	No breakdown
	Metal balls method, 2500 V _{RMS} , 60 s	
	The varistor is placed in a container holding 1.6 ± 0.2 mm diameter metal balls such that only the terminations of the varistor are protruding. The specified voltage shall be applied between both terminals of the specimen connected together and the electrode inserted between the metal balls.	



Leaded varistors B722* StandarD series



Test	Test methods/conditions	Requirement
Climatic sequence	The specimen shall be subjected to: a) dry heat at UCT, 16 h, IEC 60068-2-2, test Ba b) damp heat, 1st cycle: 55 °C, 93% r. H., 24 h, IEC 60068-2-30, test Db c) cold, LCT, 2 h, IEC 60068-2-1, test Aa d) damp heat, additional 5 cycles: 55 °C/25 °C, 93% r. H., 24 h/cycle, IEC 60068-2-30, test Db.	$I\Delta V/V$ (1 mA)I ≤10% $R_{ins} \ge 100 \ M\Omega$
	Then the specimen shall be stored at room temperature and normal humidity for 1 to 2 h. Thereafter, the change of V_V shall be measured. Thereafter, insulation resistance R_{ins} shall be measured at $V=500$ V .	
Rapid change of temperature	IEC 60068-2-14, test Na, LCT/UCT, dwell time 30 min, 5 cycles	l∆V/V (1 mA)l ≤5% No visible damage
Damp heat, steady state	IEC 60068-2-78, test Ca The specimen shall be subjected to 40 ± 2 °C, 90 to 95% r. H. for 56 days without load / with 10% of the maximum continuous DC operating voltage V _{DC} . Then stored at room temperature and normal humidity for 1 to 2 h. Thereafter, the change of V _V shall be measured. Thereafter, insulation resistance R _{ins} shall be measured at V = 500 V (insulated varistors only).	I ΔV/V (1 mA) I ≤10% R_{ins} ≥100 MΩ



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Leaded varistors

StandarD series

Test	Test methods/conditions	Requirement
Solderability	IEC 60068-2-20, test Ta, method 1 with modified conditions for lead-free solder alloys: 245 °C, 3 s: After dipping the terminals to a depth of approximately 3 mm from the body in a soldering bath of 245 °C for 3 s, the terminals shall be visually examined.	The inspection shall be carried out under adequate light with normal eyesight or with the assistance of a magnifier capable of giving a magnification of 4 to 10 times. The dipped surface shall be covered with a smooth and bright solder coating with no more than small amounts of scattered imperfections such as pinholes or un-wetted or de-wetted areas. These imperfections shall not be concentrated in one area.
Resistance to soldering heat	IEC 60068-2-20, test Tb, method 1A, 260 °C, 10 s: Each lead shall be dipped into a solder bath having a temperature of 260 \pm 5 °C to a point 2.0 to 2.5 mm from the body of the specimen, be held there for 10 \pm 1 s and then be stored at room temperature and normal humidity for 1 to 2 h. The change of V _V shall be measured and the specimen shall be visually examined.	I∆V/V (1 mA)l ≤5% No visible damage
Tensile strength	IEC 60068-2-21, test Ua1 After gradually applying the force specified below and keeping the unit fixed for 10 s, the terminal shall be visually examined for any damage. Force for wire diameter: 0.6 mm = 10 N 0.8 mm = 10 N 1.0 mm = 20 N	I∆V/V (1 mA)I ≤5% No break of solder joint, no wire break







Test	Test methods/conditions	Requirement
Vibration	tion IEC 60068-2-6, test Fc, method B4	
	Frequency range: 10 55 Hz Amplitude: 0.75 mm or 98 m/s² Duration: 6 h ($3 \cdot 2$ h) Pulse: sine wave After repeatedly applying a single harmonic vibration according to the table above. The change of V_V shall be measured and the specimen shall be visually examined.	No visible damage
Bump	IEC 60068-2-29, test Eb Pulse duration: 6 ms Max. acceleration: 400 m/s² Number of bumps:4000 Pulse: half sine	IΔV/V (1 mA)I ≤5% No visible damage
Fire hazard	IEC 60695-11-5 (needle flame test) Severity: vertical 10 s	5 s max.

Note:

UCT = Upper category temperature LCT = Lower category temperature

 R_{ins} = Insulation resistance



B722⁹

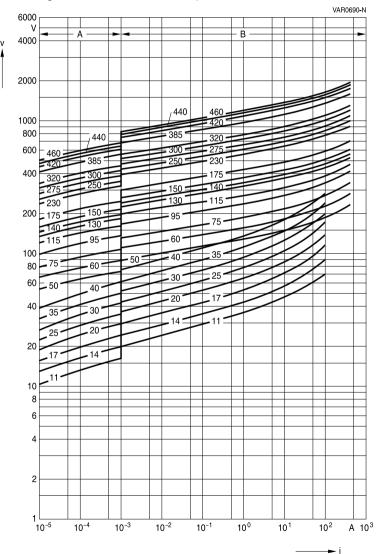


Leaded varistors

StandarD series

v/i characteristics

v = f(i) - for explanation of the characteristics refer to "General technical information", 1.6.3 A = Leakage current, B = Protection level } for worst-case varistor tolerances



SIOV-S05 ...

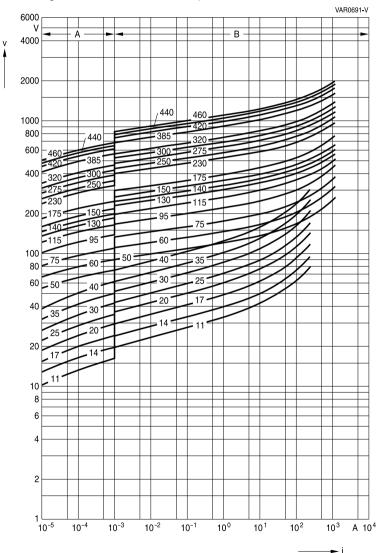


StandarD series



v/i characteristics

v = f(i) - for explanation of the characteristics refer to "General technical information", 1.6.3 A = Leakage current, B = Protection level } for worst-case varistor tolerances



SIOV-S07 ...



B722

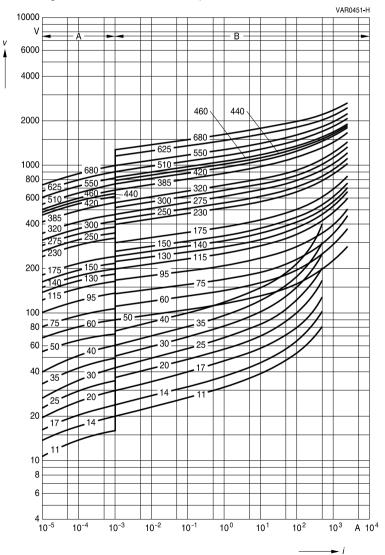


Leaded varistors

StandarD series

v/i characteristics

v = f (i) - for explanation of the characteristics refer to "General technical information", 1.6.3 A = Leakage current, B = Protection level } for worst-case varistor tolerances



SIOV-S10 ...

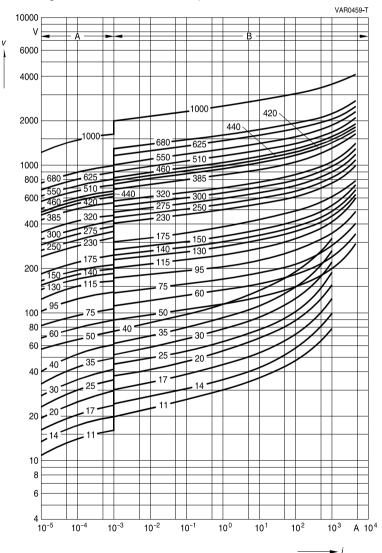


StandarD series



v/i characteristics

v = f (i) - for explanation of the characteristics refer to "General technical information", 1.6.3 A = Leakage current, B = Protection level } for worst-case varistor tolerances



SIOV-S14 ...



B722

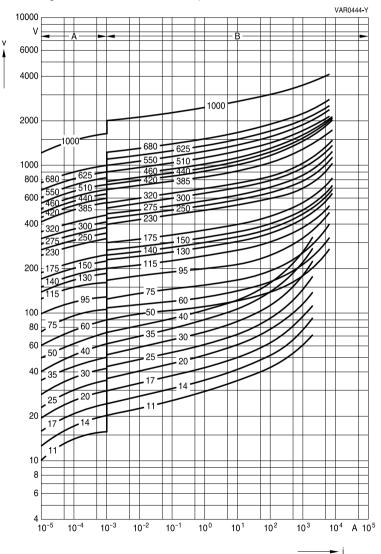


Leaded varistors

StandarD series

v/i characteristics

v = f(i) - for explanation of the characteristics refer to "General technical information", 1.6.3 A = Leakage current, B = Protection level } for worst-case varistor tolerances



SIOV-S20 ...



Leaded varistors B722st

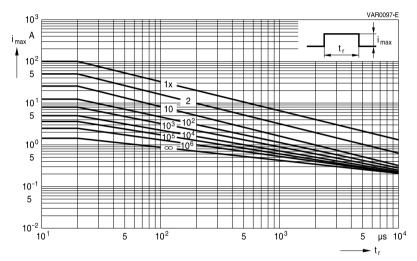
StandarD series



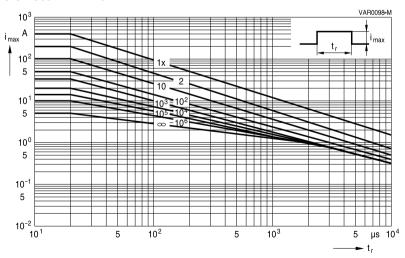
Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$

For explanation of the derating curves refer to "General technical information", section 1.8.1



SIOV-S05K11 ... K40



SIOV-S05K50 ... K460



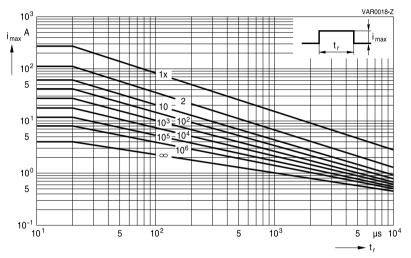


Leaded varistors

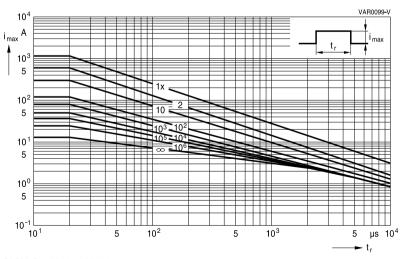
B722 StandarD series

Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S07K11 ... K40



SIOV-S07K50 ... K460



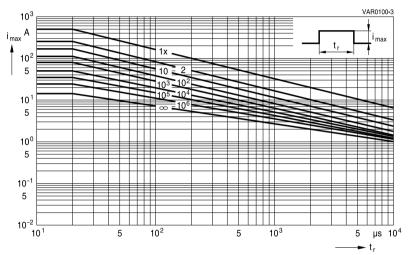
Leaded varistors B722st

StandarD series

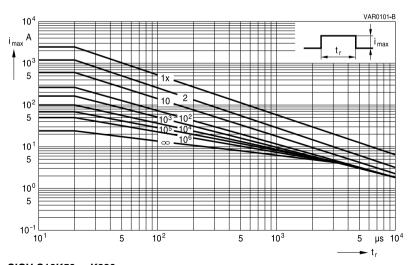


Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S10K11 ... K40



SIOV-S10K50 ... K320



B722



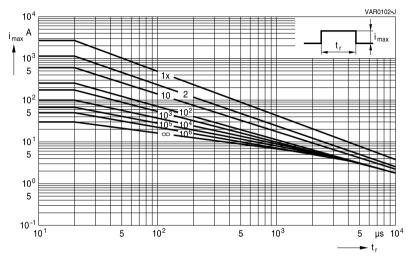
Leaded varistors

StandarD series

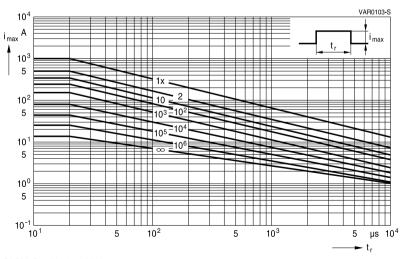
andayD assists

Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S10K385 ... K680



SIOV-S14K11 ... K40



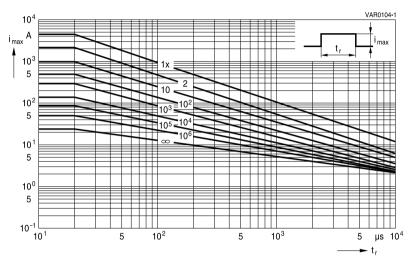
Leaded varistors B722st

StandarD series

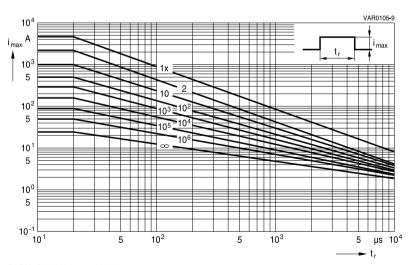


Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S14K50 ... K320



SIOV-S14K385 ... K1000





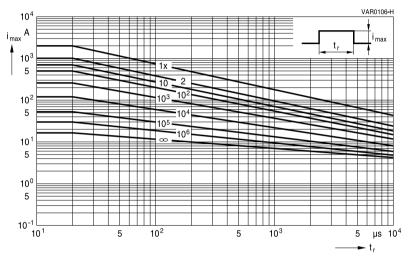
Leaded varistors

StandarD series

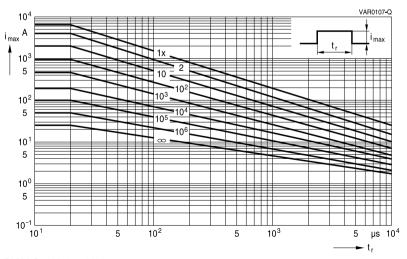
B722

Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S20K11 ... K40



SIOV-S20K50 ... K115



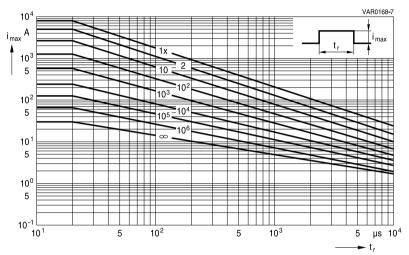
Leaded varistors B722st

StandarD series

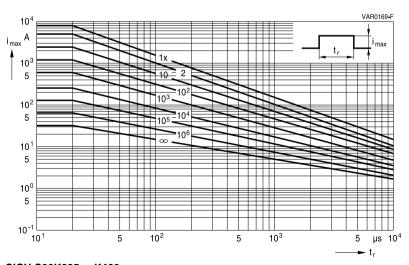


Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S20K130 ... K320



SIOV-S20K385 ... K460



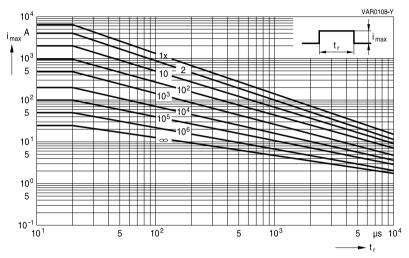


Leaded varistors

B722 StandarD series

Derating curves

Maximum surge current $i_{max} = f(t_r, pulse train)$



SIOV-S20K510 ... K1000





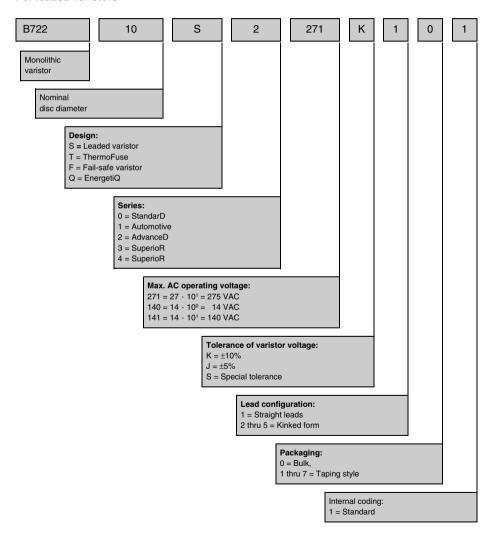
StandarD series



Taping, packaging and lead configuration

1 EPCOS ordering code system

For leaded varistors







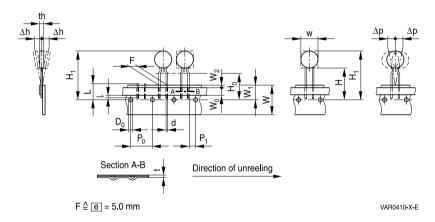
Leaded varistors StandarD series

B722

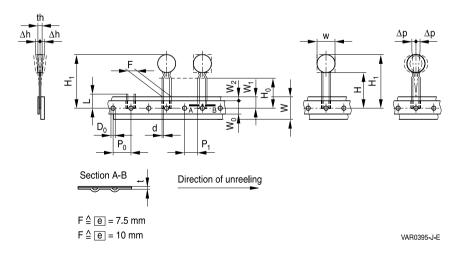
2 Taping and packaging of leaded varistors

Tape packaging for lead spacing @ = 5 fully conforms to IEC 60286-2, while for lead spacings e = 7.5 and 10 the taping mode is based on this standard.

2.1 Taping in accordance with IEC 60286-2 for lead spacing 5.0 mm



2.2 Taping based on IEC 60286-2 for lead spacing 7.5 and 10 mm





Leaded varistors

StandarD series



Tape dimensions (in mm) 2.3

Sym-	<i>e</i> = 5.0	Tolerance	<i>e</i> = 7.5	Tolerance	<i>e</i> = 10.0	Tolerance	Remarks
bol							
w		max.		max.		max.	see tables in
							each series
th		max.		max.		max.	under
لم	0.0	10.05	0.0	10.05	1.0	10.05	"Dimensions"
d	0.6	±0.05	0.8	±0.05	1.0	±0.05	
P_0	12.7	±0.3	12.71)	±0.3	12.7	±0.3	±1 mm/20
							sprocket holes
P ₁	3.85	±0.7	8.95	±0.8	7.7	±0.8	
F	5.0	+0.6/-0.1	7.5	±0.8	10.0	±0.8	
Δh	0	±2.0	depends of	n s	depends on	S	measured at
Δр	0	±1.3	0	±2.0	0	±2.0	top of compo-
							nent body
W	18.0	±0.5	18.0	±0.5	18.0	±0.5	
W_{o}	5.5	min.	11.0	min.	11.0	min.	Peel-off
							force ≥ 5 N
W_1	9.0	±0.5	9.0	+0.75/-0.5	9.0	+0.75/-0.5	
W_2	3.0	max.	3.0	max.	3.0	max.	
Н	18.0	+2.0/-0	18.0	+2.0/-0	18.0	+2.0/-0	2)
Ho	16.0	±0.5	16.0	±0.5	16.0	±0.5	3)
	(18.0)		(18.0)				
H ₁	32.2	max.	45.0	max.	45.0	max.	
D_0	4.0	±0.2	4.0	±0.2	4.0	±0.2	
t	0.9	max.	0.9	max.	0.9	max.	without lead
L	11.0	max.	11.0	max.	11.0	max.	
1	4.0	max.					

¹⁾ Taping with $P_0 = 15.0$ mm upon request

 ²⁾ Applies only to uncrimped types
 3) Applies only to crimped types (H₀ = 18 upon request)





Leaded varistors

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2.4 Taping mode

Example: B72210S0271K1 5 1

Digit 14

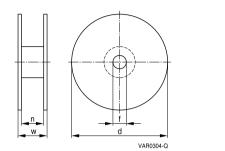
Digit 14	Taping	Reel type	Seating plane height H ₀	Seating plane height H	Pitch distance
_	mode		for crimped types	for uncrimped types	P_0
			mm	mm	mm
0	_	Bulk	-	-	_
1	G	1	16	18	12.7
2	G2	1	18	_	12.7
3	G3	II	16	18	12.7
4	G4	II	18	_	12.7
5	G5	III	16	18	12.7
6	GA	Ammo pack	16	18	12.7
7	G2A	Ammo pack	18	_	12.7
Internal	coding fo	r special tapin	g		
	G6	Ш	18	-	12.7
	G10	II	16	18	15.0
	G11	II	18	_	15.0
	G10A	Ammo pack	16	18	15.0
	G11A	Ammo pack	18	_	15.0

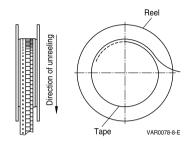






2.5 Reel dimension



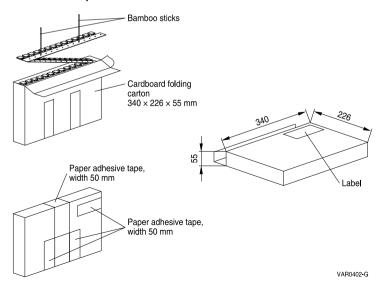


Dimensions (in mm)

Reel type	d	f	n	W
I	360 max.	31 ±1	approx. 45	54 max.
II	360 max.	31 ±1	approx. 55	64 max.
III	500 max.	23 ±1	approx. 59	72 max.

If reel type III is not compatible with insertion equipment because of its large diameter, nominal disk diameter 10 mm and 14 mm can be supplied on reel II upon request (taping mode G3).

2.6 Ammo pack dimensions







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3 Lead configuration

Straight leads are standard for disk varistors. Other lead configurations as crimp style or customer-specific lead wire length according to 3.1, 3.2, 3.3 and 3.4 are optional. Crimped leads (non-standard) are differently crimped for technical reasons; the individual crimp styles are denoted by consecutive numbers (S, S2 through S5) as shown in the dimensional drawings below.

The crimp styles of the individual types can be seen from the type designation in the ordering tables.

3.1 Crimp style mode

Example: B72210S0271K 5 01

Digit 13

Digit 13 of ordering code	Crimp style	Figure		
1	Standard, straight leads	1		
2	S2	2		
3	S3	3		
4	S4	4		
5	S5	5		
Available upon request				
Internal coding	_	6		

3.2 Standard leads and non-standard crimp styles

Standard, straight leads

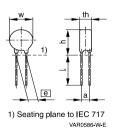
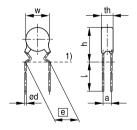


Figure 1

Non-standard, crimp style S2

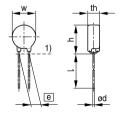


1) Seating plane to IEC 60717

VAR0411-F-E

Figure 2

Non-standard, crimp style S3



1) Seating plane to IEC 60717 VAR0396-R-E

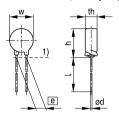
Figure 3



StandarD series

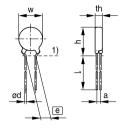


Non-standard, crimp style S4



1) Seating plane to IEC 60717 VAR0404-W-E

Non-standard, crimp style S5



1) Seating plane to IEC 60717 VAR0412-N-E

Figure 4

Figure 5

3.3 Component height (h_{max}) for crimped versions (non-standard)

Due to technical reasons the component height (h_{max}) increases if a crimp is added. The maximum height of the crimped component can be found in the table below.

Nominal diameter	V _{RMS}	Crimp style	е	h _{max}
mm	V		mm	mm
5	11 175	S2	5.0	10.0
5	210 460	S3	5.0	10.0
		_		
7	11 175	S2	5.0	12.0
7	210 460	S3	5.0	12.0
10	11 300	S5	7.5	15.5
10	320 460	S3/S5	7.5	16.5
10	510	S3/S5	7.5	17.5
10	Automotive	S5	7.5	17.0
10	Automotive (D1 types)	S5	7.5	16.0
10	11 175	S4	5.0	16.5
10	210 460	S3	5.0	16.5
		-		
14	11 300	S5	7.5	20.0
14	320 460	S3/S5	7.5	20.0
14	510	S3/S5	7.5	21.5
14	Automotive	S5	7.5	21.0
14	Automotive (D1 types)	S5	7.5	20.0
00	44 000	05	10.0	07.0
20	11 320	S5	10.0	27.0
20	385 510	S5	10.0	27.5





Leaded varistors StandarD series

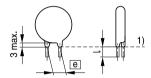
B722⁹

3.4 Trimmed leads (non-standard)

Varistors with cut leads available upon request.

Lead length tolerances:

Straight leads +/-1.0 mm +/-0.8 mm Crimped leads Minimum lead length 3.5 mm



1) Seating plane to IEC 60717

VAR0642-U-E

Figure 6



StandarD series



Cautions and warnings

General

- EPCOS metal oxide varistors are designed for specific applications and should not be used for purposes not identified in our specifications, application notes and data books unless otherwise agreed with EPCOS during the design-in-phase.
- Ensure suitability of SIOVs through reliability testing during the design-in phase. SIOVs should be evaluated taking into consideration worst-case conditions.
- 3. For applications of SIOVs in line-to-ground circuits based on various international and local standards there are restrictions existing or additional safety measures required.

Storage

- 1. Store SIOVs only in original packaging. Do not open the package before storage.
- 2. Storage conditions in original packaging:

Storage temperature: -25 °C ... +45 °C,

Relative humidity: <75% annual average,

<95% on maximum 30 days a year.

Dew precipitation: is to be avoided.

- 3. Avoid contamination of an SIOV's during storage, handling and processing.
- Avoid storage of SIOVs in harmful environments that can affect the function during long-term operation (examples given under operation precautions).
- 5. The SIOV type series should be soldered within the time specified:

SIOV-S, -Q, -LS, -B, -SFS 24 months ETFV 12 months.

Handling

- 1. SIOVs must not be dropped.
- 2. Components must not be touched with bare hands. Gloves are recommended.
- Avoid contamination of the surface of SIOV electrodes during handling, be careful of the sharp edge of SIOV electrodes.

Soldering (where applicable)

- 1. Use rosin-type flux or non-activated flux.
- 2. Insufficient preheating may cause ceramic cracks.
- 3. Rapid cooling by dipping in solvent is not recommended.
- 4. Complete removal of flux is recommended.





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Mounting

- 1. Potting, sealing or adhesive compounds can produce chemical reactions in the SIOV ceramic that will degrade the component's electrical characteristics.
- 2. Overloading SIOVs may result in ruptured packages and expulsion of hot materials. For this reason SIOVs should be physically shielded from adjacent components.

Operation

- 1. Use SIOVs only within the specified temperature operating range.
- 2. Use SIOVs only within the specified voltage and current ranges.
- Environmental conditions must not harm SIOVs. Use SIOVs only in normal atmospheric conditions. Avoid use in deoxidizing gases (chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas etc), corrosive agents, humid or salty conditions. Contact with any liquids and solvents should be prevented.



Leaded varistors B722

Symbols and terms

StandarD series

Symbol	Term
С	Capacitance
C_{typ}	Typical capacitance
i	Current
i _c	Current at which V _{c, max} is measured
I _{leak}	Leakage current
i _{max}	Maximum surge current (also termed peak current)
I _{max}	Maximum discharge current to IEC 61643-1
I_{nom}	Nominal discharge current to IEC 61643-1
LCT	Lower category temperature
L_{typ}	Typical inductance
P_{max}	Maximum average power dissipation
R _{ins}	Insulation resistance
R_{min}	Minimum resistance
T_A	Ambient temperature
t _r	Duration of equivalent rectangular wave
UCT	Upper category temperature
V	Voltage
V_{clamp}	Clamping voltage
V _{c, max}	Maximum clamping voltage at specified current i _c
V_{DC}	DC operating voltage
V_{jump}	Maximum jump start voltage
V_{max}	Maximum voltage
V_{op}	Operating voltage
V_{RMS}	AC operating voltage, root-mean-square value
$V_{RMS,\;op,\;max}$	Root-mean-square value of max. DC operating voltage incl. ripple current
V_{surge}	Super imposed surge voltage
V_{v}	Varistor voltage
ΔV_V	Tolerance of varistor voltage
W_{LD}	Maximum load dump
W_{max}	Maximum energy absorption
<i>e</i>	Lead spacing

All dimensions are given in mm.

The commas used in numerical values denote decimal points.



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