

SIOV metal oxide varistors

Leaded varistors, SuperioR, S25 series

Series/Type: B722*
Date: December 2011

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SuperioR, S25 series
Construction

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

Features

- High-energy SuperioR series E4
- Wide operating voltage range 130 ... 750 V_{RMS}
- UL approval to UL 1449 (file number E321126 – exception 580 V)
- Very high surge current rating up to 20 kA

Approvals

- UL
- CSA
- IEC
- VDE

Delivery mode

- Bulk (standard)
- For further details refer chapter "Taping, packaging and lead configuration" for leaded varistors.

General technical data

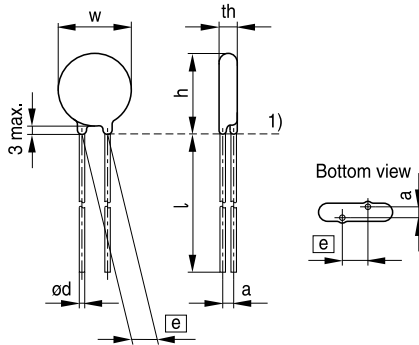
Climatic category	to IEC 60068-1	40/85/56	
Operating temperature	to IEC 61051	-40 ... + 85	°C
Storage temperature		-40 ... +125	°C
Electric strength	to IEC 61051	≥ 2.5	kV _{RMS}
Insulation resistance	to IEC 61051	≥ 100	MΩ
Response time		< 25	ns


Electrical specifications and ordering codes
Maximum ratings ($T_A = 85\text{ }^\circ\text{C}$)

Ordering code	Type (untaped) SIOV-	V_{RMS}	V_{DC}	i_{max} (8/20 μs)	W_{max} (2 ms)	P_{max}
		V	V	A	J	W
B72225S4131K101	S25K130E4R12	130	170	20000	185	1.0
B72225S4141K101	S25K140E4R12	140	180	20000	195	1.0
B72225S4151K101	S25K150E4R12	150	200	20000	215	1.0
B72225S4171K101	S25K175E4R12	175	225	20000	245	1.0
B72225S4231K101	S25K230E4R12	230	300	20000	315	1.0
B72225S4251K101	S25K250E4R12	250	320	20000	345	1.0
B72225S4271K101	S25K275E4R12	275	350	20000	375	1.0
B72225S4301K101	S25K300E4R12	300	385	20000	410	1.0
B72225S4321K101	S25K320E4R12	320	420	20000	445	1.0
B72225S4381K101	S25K385E4R12	385	505	20000	600	1.0
B72225S4421K101	S25K420E4R12	420	560	20000	700	1.0
B72225S4441K101	S25K440E4R12	440	585	20000	710	1.0
B72225S4461K101	S25K460E4R12	460	615	20000	720	1.0
B72225S4511K101	S25K510E4R12	510	670	20000	750	1.0
B72225S4551K101	S25K550E4R12	550	745	20000	780	1.0
B72225S4581K101	S25K580E4R12	580	780	20000	800	1.0
B72225S4621K101	S25K625E4R12	625	825	20000	855	1.0
B72225S4681K101	S25K680E4R12	680	895	20000	940	1.0
B72225S4751K101	S25K750E4R12	750	1060	20000	1025	1.0


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Characteristics (T_A = 25 °C)

Ordering code	V _v (1 mA)	ΔV _v (1 mA)	V _{c,max} (i _c)	i _c	C _{typ} (1 kHz)
	V	%	V	A	pF
B72225S4131K101	205	±10	340	150	3800
B72225S4141K101	220	±10	360	150	3550
B72225S4151K101	240	±10	395	150	3250
B72225S4171K101	270	±10	455	150	2900
B72225S4231K101	360	±10	595	150	2250
B72225S4251K101	390	±10	650	150	2100
B72225S4271K101	430	±10	710	150	1900
B72225S4301K101	470	±10	775	150	1750
B72225S4321K101	510	±10	840	150	1600
B72225S4381K101	620	±10	1025	150	1250
B72225S4421K101	680	±10	1120	150	1150
B72225S4441K101	715	±10	1180	150	1100
B72225S4461K101	750	±10	1240	150	1050
B72225S4511K101	820	±10	1355	150	950
B72225S4551K101	910	±10	1500	150	860
B72225S4581K101	940	±10	1580	150	830
B72225S4621K101	1000	±10	1650	150	780
B72225S4681K101	1100	±10	1815	150	710
B72225S4751K101	1200	±10	2000	150	650


Dimensional drawings


1) Seating plane to IEC 60717

VAR0408-C-E

Weight

Nominal diameter mm	V_{RMS} V	Weight g
25	130 ... 750	5.2 ... 22.2

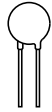
The weight of varistors in between these voltage classes can be interpolated.

Dimensions

Ordering code	[e] ±1 mm	a ±1 mm	w_{max} mm	th_{max} mm	h_{max} mm	l_{min} mm	d ±0.05 mm
B72225S4131K101	12.7	3.4	27.5	5.7	31.0	25.0	1.0
B72225S4141K101	12.7	3.5	27.5	5.8	31.0	25.0	1.0
B72225S4151K101	12.7	3.6	27.5	5.9	31.0	25.0	1.0
B72225S4171K101	12.7	3.8	27.5	6.1	31.0	25.0	1.0
B72225S4231K101	12.7	4.4	27.5	6.7	31.0	25.0	1.0
B72225S4251K101	12.7	4.6	27.5	6.9	31.0	25.0	1.0
B72225S4271K101	12.7	4.9	27.5	7.2	31.0	25.0	1.0
B72225S4301K101	12.7	5.1	27.5	7.4	31.0	25.0	1.0
B72225S4321K101	12.7	5.3	27.5	7.6	31.0	25.0	1.0
B72225S4381K101	12.7	6.0	27.5	8.3	31.5	25.0	1.0
B72225S4421K101	12.7	6.3	27.5	8.6	31.5	25.0	1.0
B72225S4441K101	12.7	6.6	27.5	8.9	31.5	25.0	1.0
B72225S4461K101	12.7	6.8	27.5	9.1	31.5	25.0	1.0
B72225S4511K101	12.7	7.2	27.5	9.5	31.5	25.0	1.0
B72225S4551K101	12.7	7.7	27.5	10.0	32.0	25.0	1.0
B72225S4581K101	12.7	7.9	27.5	10.2	32.0	25.0	1.0
B72225S4621K101	12.7	8.3	27.5	10.6	32.0	25.0	1.0
B72225S4681K101	12.7	8.9	27.5	11.2	32.5	25.0	1.0
B72225S4751K101	12.7	9.4	27.5	11.7	32.5	25.0	1.0


Reliability data

Test	Test methods/conditions	Requirement
Varistor voltage	The voltage between two terminals with the specified measuring current applied is called V_V (1 mA _{DC} @ 0.2 ... 2 s).	To meet the specified value
Clamping voltage	The maximum voltage between two terminals with the specified standard impulse current (8/20 μ s) applied.	To meet the specified value
Endurance at upper category temperature	1000 h at UCT 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_V shall be measured.	$ \Delta V/V$ (1 mA) $\leq 10\%$
Surge current derating, 8/20 μ s	10 surge currents (8/20 μ s), unipolar, interval 30 s, amplitude corresponding to derating curve for 10 impulses at 20 μ s	$ \Delta V/V$ (1 mA) $\leq 10\%$ (measured in direction of surge current) No visible damage
Surge current derating, 2 ms	10 surge currents (2 ms), unipolar, interval 120 s, amplitude corresponding to derating curve for 10 impulses at 2 ms	$ \Delta V/V$ (1 mA) $\leq 10\%$ (measured in direction of surge current) No visible damage
Electric strength	IEC 61051-1, test 4.9.2 Metal balls method, 2500 V _{RMS} , 60 s The varistor is placed in a container holding 1.6 \pm 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.	No breakdown


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Test	Test methods/conditions	Requirement
Climatic sequence	<p>The specimen shall be subjected to:</p> <p>a) dry heat at UCT, 16 h, IEC 60068-2-2, test Ba</p> <p>b) damp heat, 1st cycle: 55 °C, 93% r. H., 24 h, IEC 60068-2-30, test Db</p> <p>c) cold, LCT, 2 h, IEC 60068-2-1, test Aa</p> <p>d) damp heat, additional 5 cycles: 55 °C/25 °C, 93% r. H., 24 h/cycle, IEC 60068-2-30, test Db.</p> <p>Then the specimen shall be stored at room temperature and normal humidity for 1 to 2 h.</p> <p>Thereafter, the change of V_V shall be measured. Thereafter, insulation resistance R_{ins} shall be measured at $V = 500$ V.</p>	$ \Delta V/V (1 \text{ mA}) \leq 10\%$ $R_{ins} \geq 100 \text{ M}\Omega$
Rapid change of temperature	IEC 60068-2-14, test Na, LCT/UCT, dwell time 30 min, 5 cycles	$ \Delta V/V (1 \text{ mA}) \leq 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).	$ \Delta V/V (1 \text{ mA}) \leq 10\%$ $R_{ins} \geq 100 \text{ M}\Omega$


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Test	Test methods/conditions	Requirement
Solderability	<p>IEC 60068-2-20, test Ta, method 1 with modified conditions for lead-free solder alloys: 245 °C, 3 s:</p> <p>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.</p>	<p>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.</p>
Resistance to soldering heat	<p>IEC 60068-2-20, test Tb, method 1A, 260 °C, 10 s:</p> <p>Each lead shall be dipped into a solder bath having a temperature of 260 ±5 °C to a point 2.0 to 2.5 mm from the body of the specimen, be held there for 10 ±1 s and then be stored at room temperature and normal humidity for 1 to 2 h.</p> <p>The change of V_v shall be measured and the specimen shall be visually examined.</p>	<p>$\Delta V/V (1 \text{ mA}) \leq 5\%$</p> <p>No visible damage</p>
Tensile strength	<p>IEC 60068-2-21, test Ua1</p> <p>After gradually applying the force specified below and keeping the unit fixed for 10 s, the terminal shall be visually examined for any damage.</p> <p>Force for wire diameter:</p> <p>0.6 mm = 10 N 0.8 mm = 10 N 1.0 mm = 20 N</p>	<p>$\Delta V/V (1 \text{ mA}) \leq 5\%$</p> <p>No break of solder joint, no wire break</p>



Test	Test methods/conditions	Requirement
Vibration	IEC 60068-2-6, test Fc, method B4 Frequency range: 10 ... 55 Hz Amplitude: 0.75 mm or 98 m/s ² Duration: 6 h (3 · 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.	ΔV/V (1 mA) ≤5% No visible damage
Bump	IEC 60068-2-29, test Eb Pulse duration: 6 ms Max. acceleration: 400 m/s ² Number of bumps: 4000 Pulse: half sine	ΔV/V (1 mA) ≤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

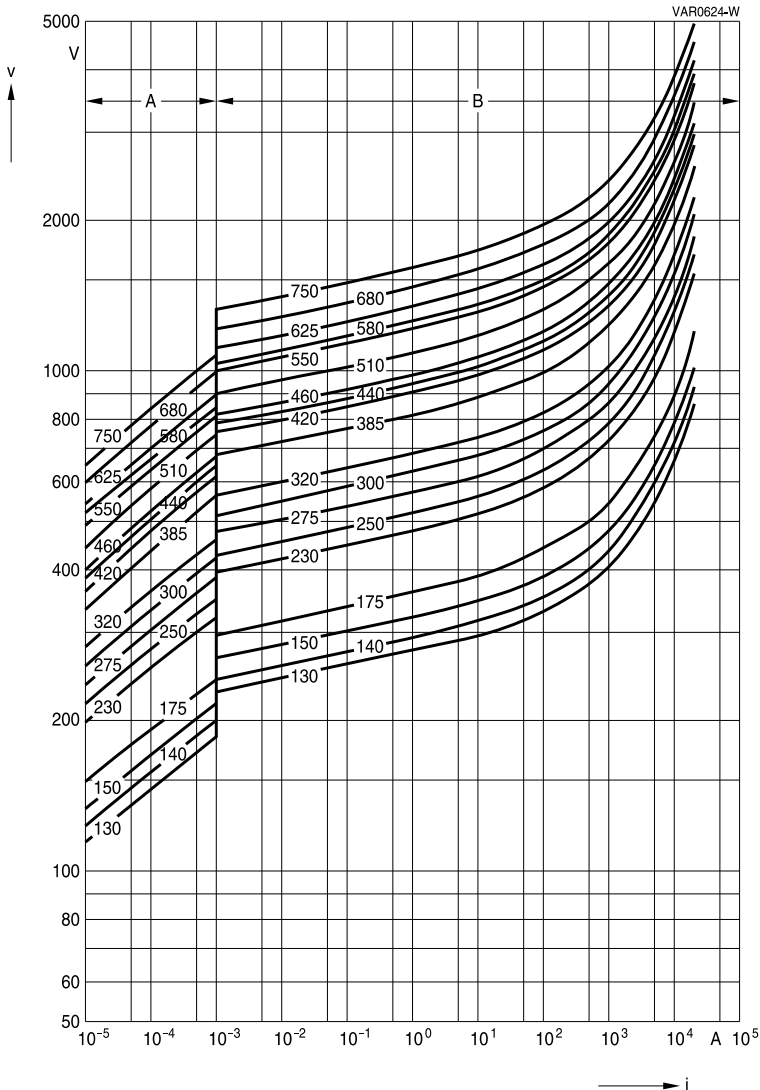
LCT = Lower category temperature

 R_{ins} = Insulation resistance



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



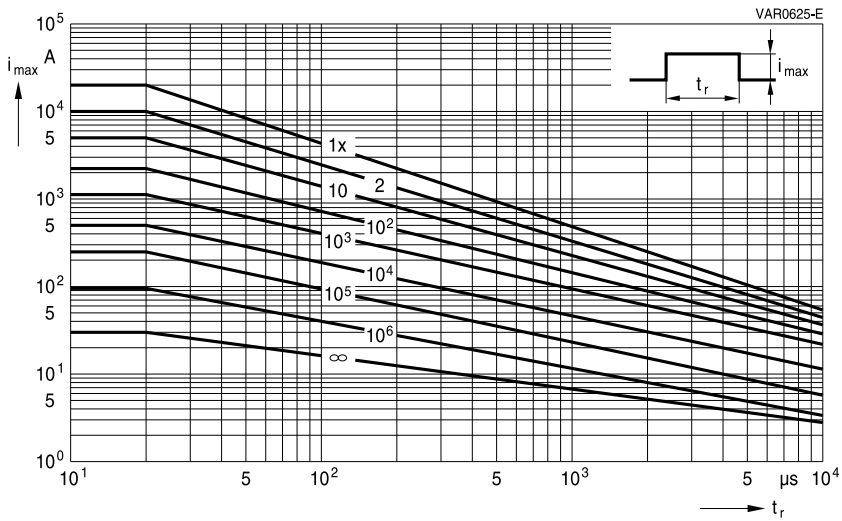
SIOV-S25 ... E4R12



Derating curves

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

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



SIOV-S25 ... E4R12



Leaded varistors

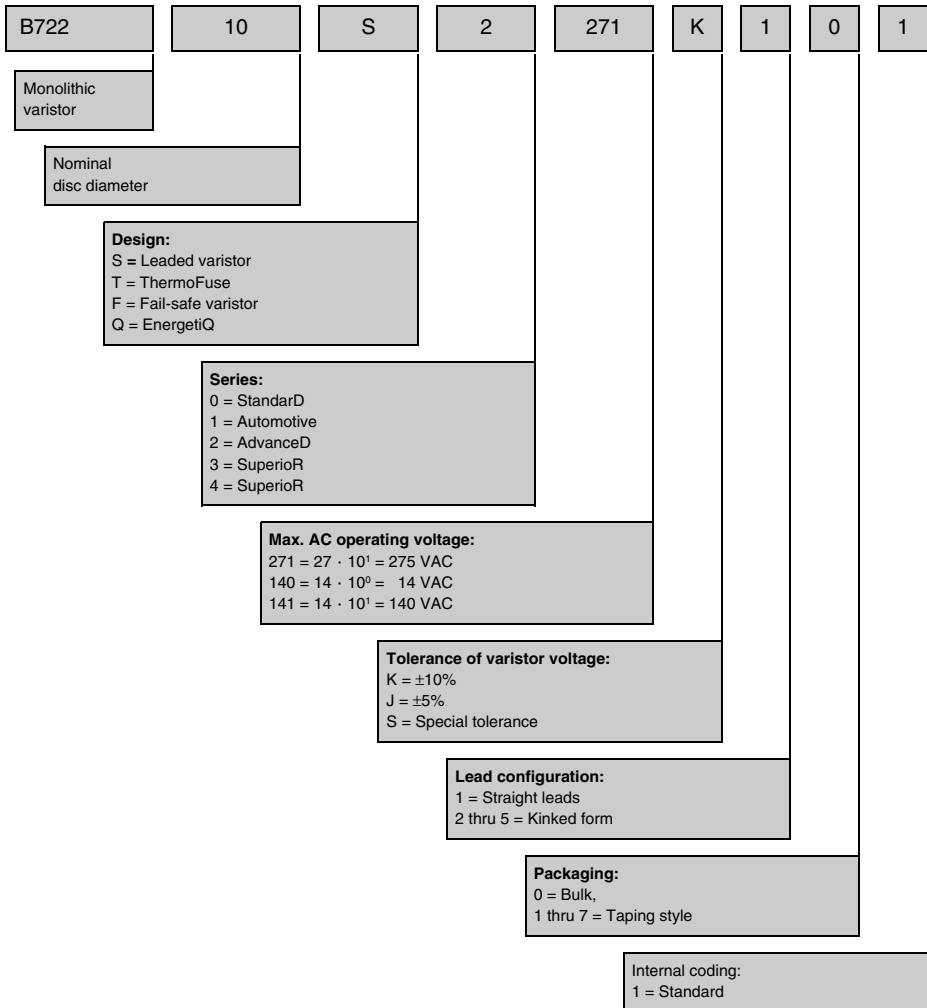
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Taping, packaging and lead configuration

1 EPCOS ordering code system

For leaded varistors

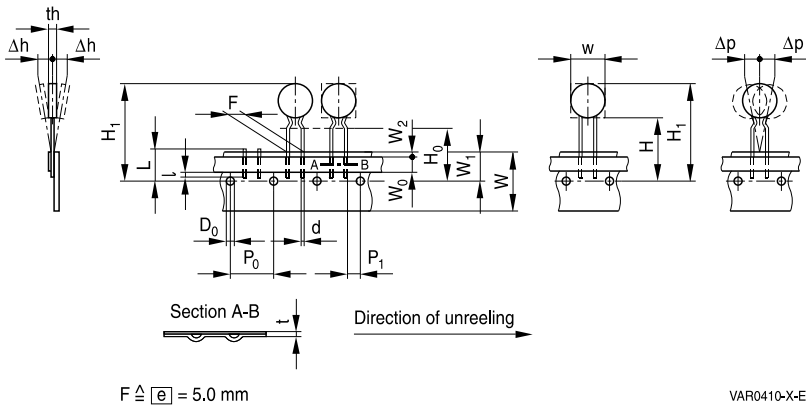




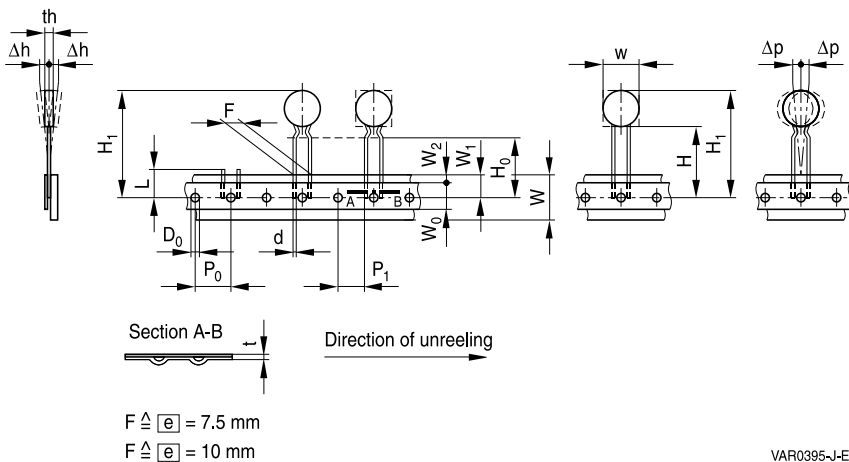
2 Taping and packaging of leaded varistors

Tape packaging for lead spacing \boxed{e} = 5 fully conforms to IEC 60286-2, while for lead spacings \boxed{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




2.3 Tape dimensions (in mm)

Symbol	$e = 5.0$	Tolerance	$e = 7.5$	Tolerance	$e = 10.0$	Tolerance	Remarks
w		max.		max.		max.	see tables in each series under "Dimensions"
th		max.		max.		max.	
d	0.6	± 0.05	0.8	± 0.05	1.0	± 0.05	
P ₀	12.7	± 0.3	12.7 ¹⁾	± 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	measured at top of component body
Δh	0	± 2.0	depends on s		depends on s		
Δp	0	± 1.3	0	± 2.0	0	± 2.0	
W	18.0	± 0.5	18.0	± 0.5	18.0	± 0.5	Peel-off force ≥ 5 N
W ₀	5.5	min.	11.0	min.	11.0	min.	
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.	
H	18.0	$+2.0/-0$	18.0	$+2.0/-0$	18.0	$+2.0/-0$	2) 3)
H ₀	16.0 (18.0)	± 0.5	16.0 (18.0)	± 0.5	16.0	± 0.5	
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	without lead
t	0.9	max.	0.9	max.	0.9	max.	
L	11.0	max.	11.0	max.	11.0	max.	
l	4.0	max.					

1) Taping with P₀ = 15.0 mm upon request

2) Applies only to uncrimped types

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



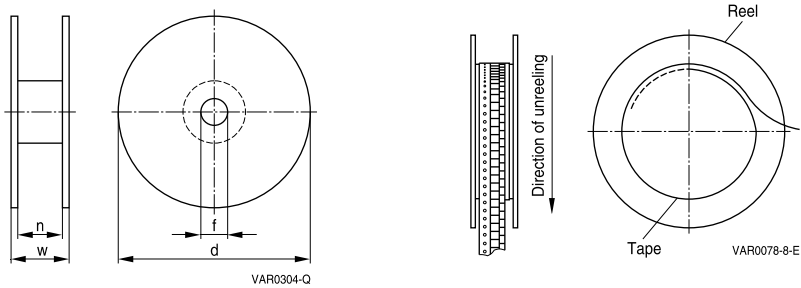
2.4 Taping mode

Example: B72210S0271K1 5 1
|
Digit 14

Digit 14	Taping mode	Reel type	Seating plane height H ₀ for crimped types mm	Seating plane height H for uncrimped types mm	Pitch distance P ₀ mm
0	–	Bulk	–	–	–
1	G	I	16	18	12.7
2	G2	I	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 for special taping					
	G6	III	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

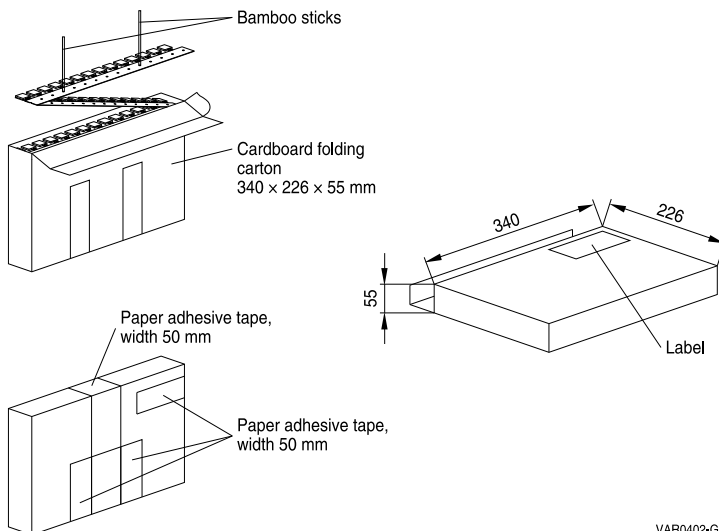


Dimensions (in mm)

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





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

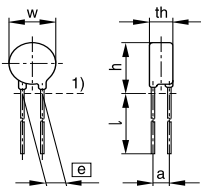
Example: B72210S0271K **5**01

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

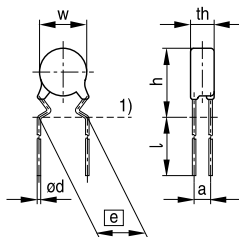
Standard, straight leads



1) Seating plane to IEC 717
VAR0586-W-E

Figure 1

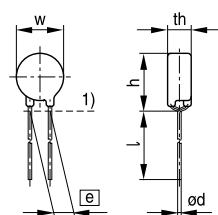
Non-standard, crimp style S2



1) Seating plane to IEC 60717
VAR0411-F-E

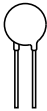
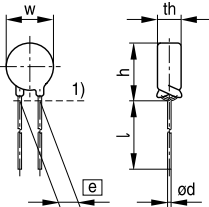
Figure 2

Non-standard, crimp style S3



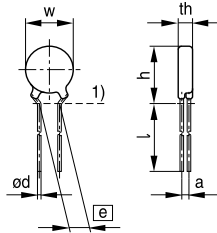
1) Seating plane to IEC 60717
VAR0396-R-E

Figure 3


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 mm	V_{RMS} V	Crimp style	e mm	h_{max} 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
20	11 ... 320	S5	10.0	27.0
20	385 ... 510	S5	10.0	27.5



3.4 Trimmed leads (non-standard)

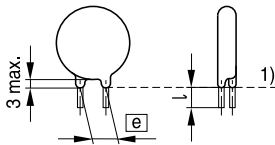
Varistors with cut leads available upon request.

Lead length tolerances:

Straight leads ± 1.0 mm

Crimped leads ± 0.8 mm

Minimum lead length 3.5 mm



1) Seating plane to IEC 60717

VAR0642-U-E

Figure 6



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.
3. 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.


Symbols and terms

Symbol	Term
C	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
e	Lead spacing

All dimensions are given in mm.

The commas used in numerical values denote decimal points.

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