

SIOV metal oxide varistors

Leaded varistors, AdvanceD-MP, S14 series

Series/Type: B722*
Date: April 2011

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Construction

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

Features

- Wide operating voltage range 130 ... 680 V_{RMS}
- All types duty cycle @ 6 kV/ 3 kA = >10 pulses, according to IEC 60950-1 Annex Q; IEC 61051-2
- All types I_{nom} @ 3 kA = >15 impulses according to UL 1449, 3rd Edition surge current generator (8/20 μs), Type 2 listed
- Multiple pulse handling capability

Approvals

- UL
- CSA
- VDE
- 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.

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	V_{DC} V	i_{max} (8/20 μs) A	W_{max} (2 ms) J	P_{max} W
B72214P2131K101	S14K130E2K1	130	170	6000	60.0	0.60
B72214P2141K101	S14K140E2K1	140	180	6000	65.0	0.60
B72214P2151K101	S14K150E2K1	150	200	6000	70.0	0.60
B72214P2171K101	S14K175E2K1	175	225	6000	80.0	0.60
B72214P2211K101	S14K210E2K1	210	270	6000	95.0	0.60
B72214P2231K101	S14K230E2K1	230	300	6000	105.0	0.60
B72214P2251K101	S14K250E2K1	250	270	6000	115.0	0.60
B72214P2271K101	S14K275E2K1	275	350	6000	130.0	0.60
B72214P2301K101	S14K300E2K1	300	385	6000	140.0	0.60
B72214P2321K101	S14K320E2K1	320	420	6000	150.0	0.60
B72214P2351K101	S14K350E2K1	350	460	6000	165.0	0.60
B72214P2381K101	S14K385E2K1	385	505	6000	180.0	0.60
B72214P2421K101	S14K420E2K1	420	560	6000	190.0	0.60
B72214P2461K101	S14K460E2K1	460	615	6000	200.0	0.60
B72214P2511K101	S14K510E2K1	510	670	6000	200.0	0.60
B72214P2551K101	S14K550E2K1	550	745	6000	220.0	0.60
B72214P2621K101	S14K620E2K1	625	825	6000	240.0	0.60
B72214P2681K101	S14K680E2K1	680	895	6000	260.0	0.60

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

Ordering code	Type (untaped) SIOV-	V_v (1 mA) V	ΔV_v (1 mA) %	$v_{c,max}$ (i_c) V	i_c A	C_{typ} (1 kHz) pF
B72214P2131K101	S14K130E2K1	205	± 10	340	50.0	1100
B72214P2141K101	S14K140E2K1	220	± 10	360	50.0	1000
B72214P2151K101	S14K150E2K1	240	± 10	395	50.0	900
B72214P2171K101	S14K175E2K1	270	± 10	455	50.0	800
B72214P2211K101	S14K210E2K1	330	± 10	545	50.0	690
B72214P2231K101	S14K230E2K1	360	± 10	595	50.0	630
B72214P2251K101	S14K250E2K1	390	± 10	650	50.0	580
B72214P2271K101	S14K275E2K1	430	± 10	710	50.0	530
B72214P2301K101	S14K300E2K1	470	± 10	775	50.0	485
B72214P2321K101	S14K320E2K1	510	± 10	840	50.0	445
B72214P2351K101	S14K350E2K1	560	± 10	910	50.0	410
B72214P2381K101	S14K385E2K1	620	± 10	1025	50.0	390
B72214P2421K101	S14K420E2K1	680	± 10	1120	50.0	355
B72214P2461K101	S14K460E2K1	750	± 10	1240	50.0	320
B72214P2511K101	S14K510E2K1	820	± 10	1355	50.0	300
B72214P2551K101	S14K550E2K1	910	± 10	1500	50.0	265
B72214P2621K101	S14K620E2K1	1000	± 10	1650	50.0	240
B72214P2681K101	S14K680E2K1	1100	± 10	1815	50.0	220


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Dimensional drawings


1) Seating plane to IEC 60717

VAR0408-C-E

Weight

Nominal diameter mm	V_{RMS} V	Weight g
14	130 ... 680	1.8 ... 5.4

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	$d \pm 0.05$ mm
B72214P2131K101	7.5	2.0	16.0	4.7	20.0	25.0	0.8
B72214P2141K101	7.5	2.1	16.0	4.8	20.0	25.0	0.8
B72214P2151K101	7.5	2.2	16.0	4.9	20.0	25.0	0.8
B72214P2171K101	7.5	2.4	16.0	5.1	20.0	25.0	0.8
B72214P2211K101	7.5	2.7	16.0	5.4	20.0	25.0	0.8
B72214P2231K101	7.5	2.9	16.0	5.6	20.0	25.0	0.8
B72214P2251K101	7.5	3.0	16.0	5.7	20.0	25.0	0.8
B72214P2271K101	7.5	3.2	16.0	5.9	20.0	25.0	0.8
B72214P2301K101	7.5	3.5	16.0	6.1	20.0	25.0	0.8
B72214P2321K101	7.5	3.7	16.0	6.3	20.0	25.0	0.8
B72214P2351K101	7.5	4.1	16.5	6.7	20.5	25.0	0.8
B72214P2381K101	7.5	4.4	16.5	7.7	20.5	25.0	0.8
B72214P2421K101	7.5	4.7	16.5	8.2	20.5	25.0	0.8
B72214P2461K101	7.5	5.1	16.5	8.5	20.5	25.0	0.8
B72214P2511K101	7.5	5.4	17.0	8.9	21.0	25.0	0.8
B72214P2551K101	7.5	5.9	17.0	9.4	21.0	25.0	0.8
B72214P2621K101	7.5	6.4	17.0	9.9	21.0	25.0	0.8
B72214P2681K101	7.5	7.0	17.0	10.5	21.0	25.0	0.8


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\%$ $R_{ins} \geq 100 \text{ M}\Omega$



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 ±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. The change of V_V shall be measured and the specimen shall be visually examined.	$ \Delta V/V (1 \text{ mA}) \leq 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	$ \Delta V/V (1 \text{ mA}) \leq 5\%$ No break of solder joint, no wire break


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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.	$ \Delta V/V (1 \text{ mA}) \leq 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	$ \Delta V/V (1 \text{ mA}) \leq 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

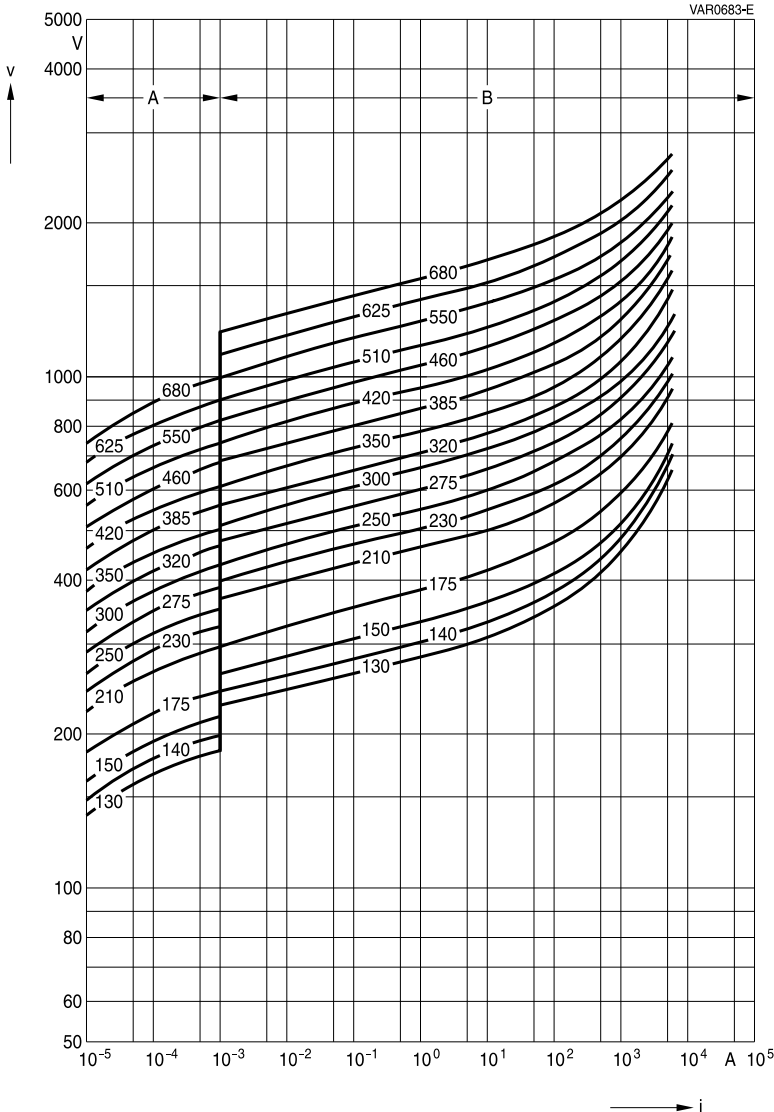
LCT = Lower category temperature

 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-S14 ... E2K1



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-S14K130 ... K460E2K1



SIOV-S14K510 ... K680E2K1



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Taping, packaging and lead configuration

1 EPCOS ordering code system

For leaded varistors





Leaded varistors

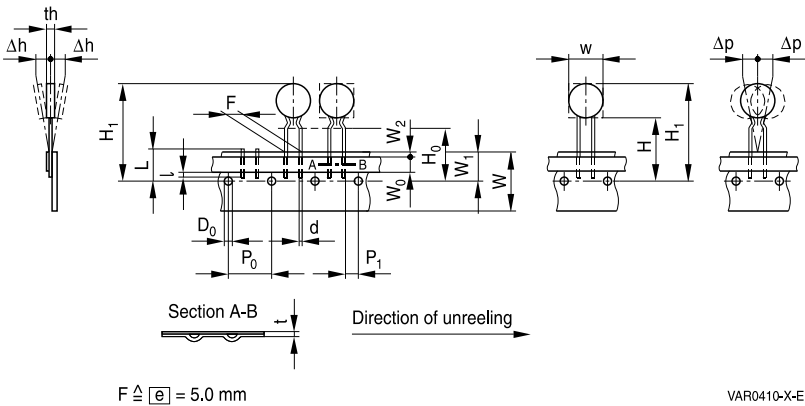
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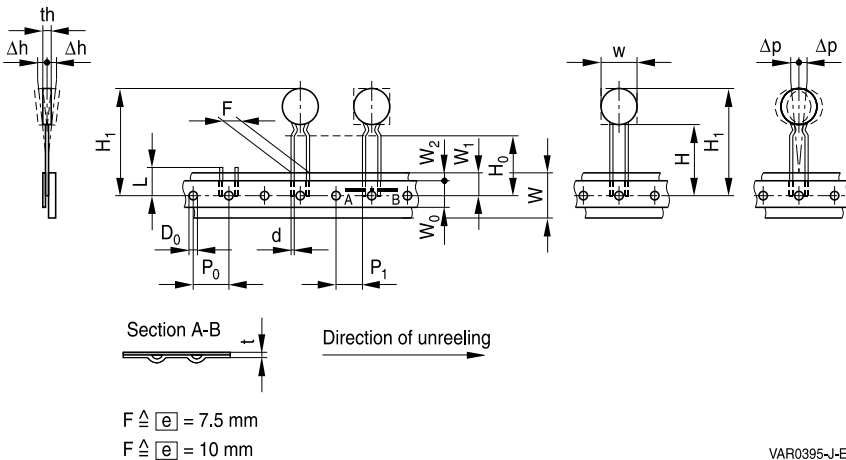
2 Taping and packaging of leaded varistors

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

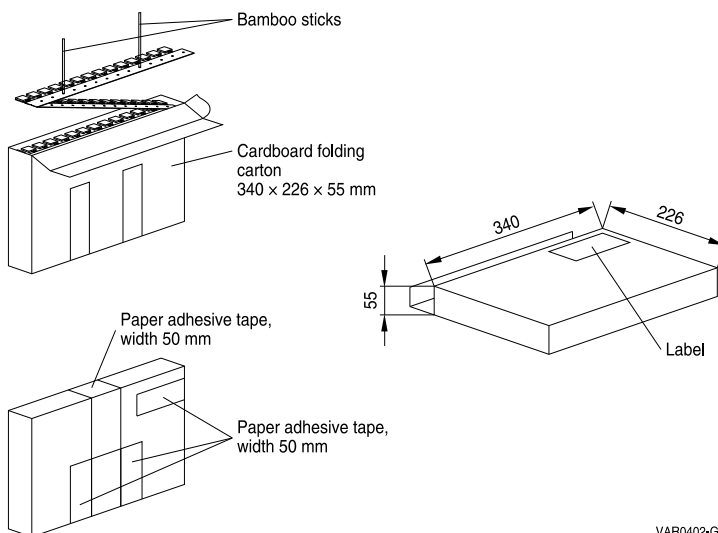


Dimensions (in mm)

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

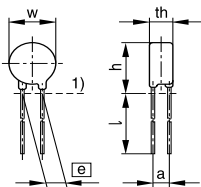
Example: B72210S0271K **5** 01

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



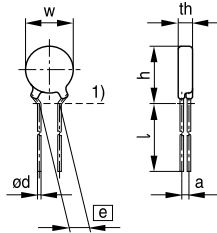
1) Seating plane to IEC 60717
VAR0396-R-E

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)

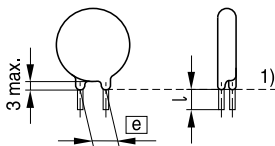
Varistors with cut leads available upon request.

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.

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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