

KUNDENBESTÄTIGUNG/CUSTOMER ACCEPTANCE

Bestätigung/Acceptance	ja/yes <input type="checkbox"/>	Stempel/Stamp
	nein/no <input type="checkbox"/>	
Bemerkungen/Remarks		
	Datum/Date	Unterschrift/Sign

Gewähr für die Freiheit von Rechten Dritter leisten wir nur für die Bauelemente selbst, nicht für Anwendungen, Verfahren und für die mit Bauelementen oder Baugruppen realisierten Schaltungen. Mit den Angaben werden die Bauelemente spezifiziert, nicht Eigenschaften zugesichert. Falls wir innerhalb von 4 Wochen keine Rückäußerung Ihrerseits erhalten, gehen wir davon aus, daß das Datenblatt von Ihnen ohne Änderung akzeptiert wird.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies. The information describes the type of component and shall not be considered as assured characteristics. If we will get no feedback from your side within 4 weeks, we assume that the Data Sheet is accepted without changes.

Zurück an/return to: **EPCOS**


VORSCHRIFT/DIRECTIONS : **ORDNER/FILE:** D11
FILE/DATA FILE :
VERTEILER/DISTRIBUTOR : V_VARDBL

BEMERKUNGEN/REMARKS:**ÜBERSICHT AUSGABESTAND/OVERVIEW INDEX STATUS**

Anzahl Blätter/No. of pages	BLATT-Nummer und BLATT-Ausgabe/ Page no. and page index no.																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
9	b	b	b	b	b	b	b	b	b																					

Änderung/Modification

Data sheet has been updated

Bearbeiter/ prepared by:	KH PE-S	QS	VS PM		
Mr. Ebner					
b	02.02.01				
Ausg. Issue	Mitteilung Info No.	Datum Date	Name Sign	DATENBLATT/DATA SHEET SIOV-S07K300GS3	
				B72207-S301-K311-*-7600	
				Bl./Page	1

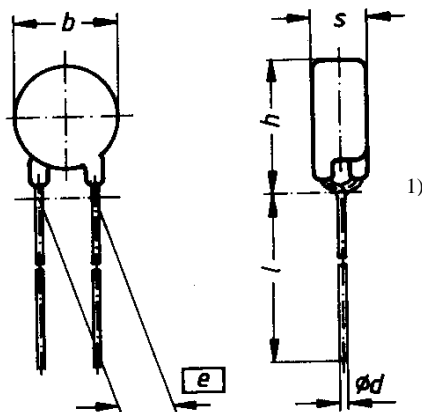
Metal Oxide Varistor Disk type

Ordering code: **SIOV- S07K300GS3
B72207-S301-K311**

SIOV nomenclature

S	=	Disk type
07	=	Rated disk diameter
K	=	Tolerance of V_V at 1mA : $\pm 10\%$
300	=	Max. AC voltage
G	=	Taping in accordance with DIN IEC 286-2 – see page 3
S3	=	Kink style

Figure: Dimensions given in Millimeters (mm)



b_{\max}	=	9,0
h_{\max}	=	12
s_{\max}	=	4,5
e	=	$5,0 + 0,6 / - 0,1$ ²⁾
$\varnothing d$	=	$0,6 \pm 0,05$


- 1) seating in plane in accordance with IEC 717
2) measured above carrier tape

2)

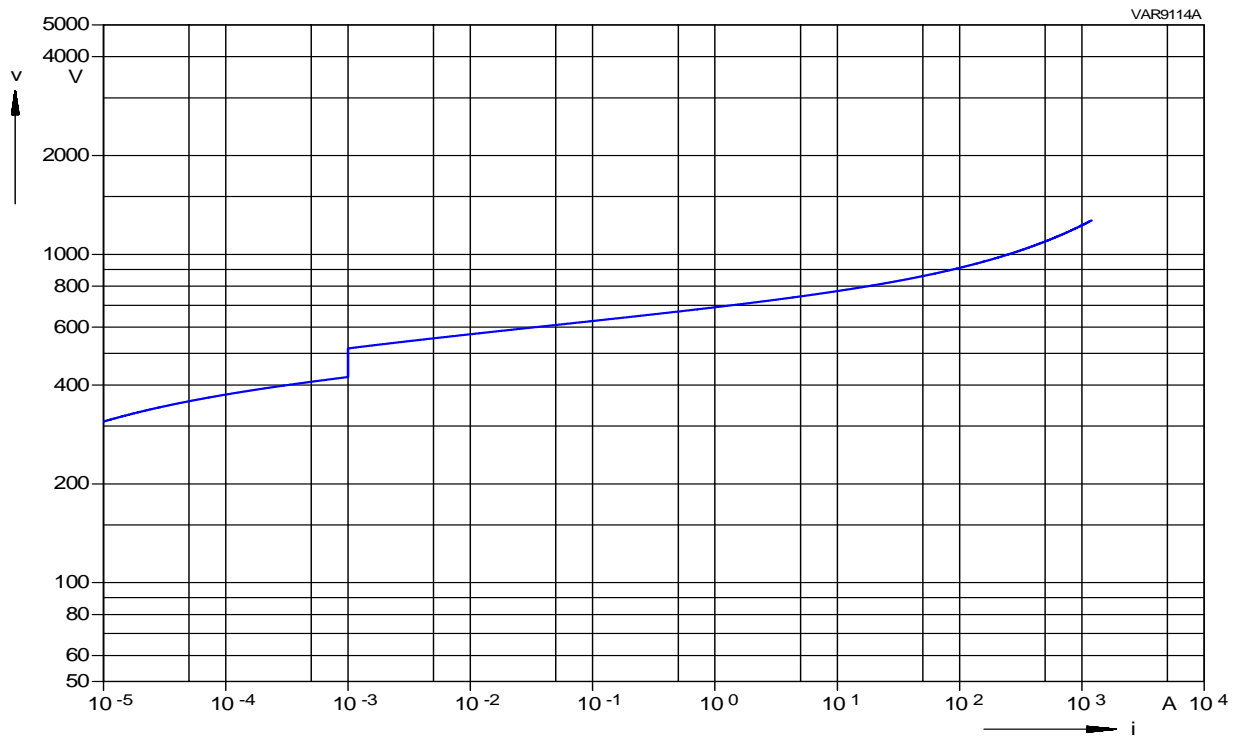
VAR0008-S

Electrical data:

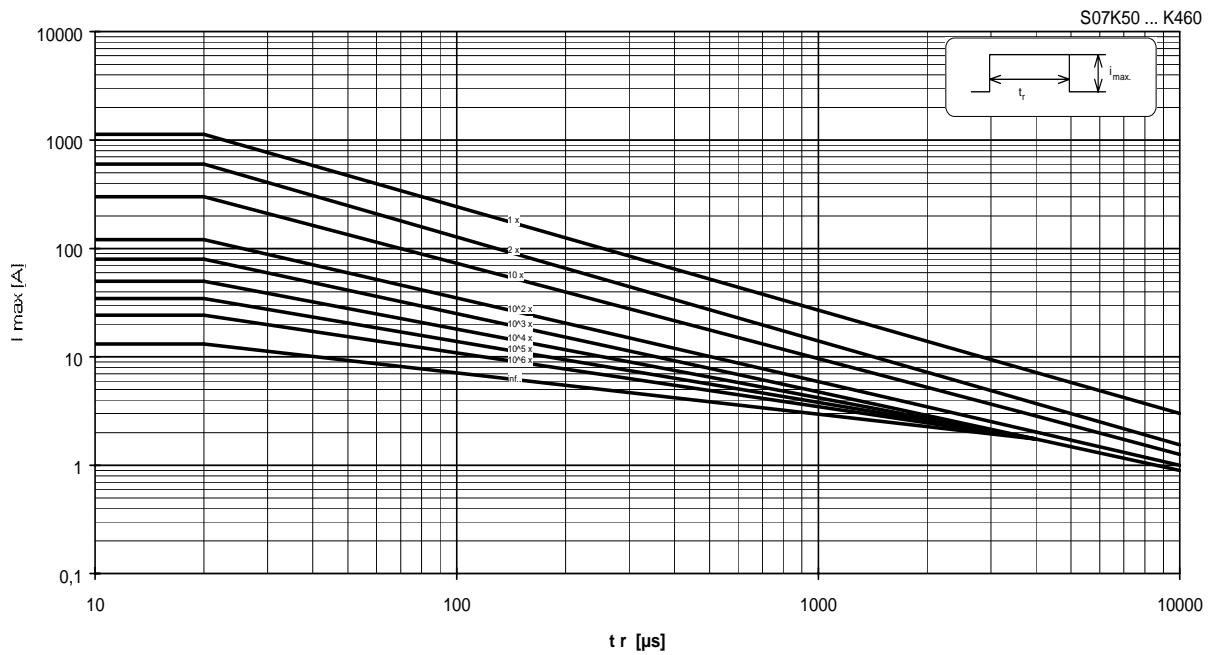
Max. operating AC voltage	V_{RMS}	=	300V
Max. operating DC voltage	V_{DC}	=	385V
Surge current (8/20 μ s)	1 time	I_{\max}	= 1200A
Max. energy absorption (2ms)	1 time	W_{\max}	= 23J
Average power dissipation		P_{\max}	= 0,25W
Varistor voltage at 1mA		V_V	= $470V \pm 10\%$
Clamping voltage at 10A (8/20 μ s)		$V_{C,\max}$	= 775V
Typ. capacitance at 1 kHz		C	= 90pF

				DATA SHEET VARISTOR	
				SIOV- S07K300GS3	
				S07K300GS3.doc	
b	-	02.02.01			
Ausg.	Mitteilung	Datum			
Issue	Info No.	Date			

V/I Characteristic:



Derating:

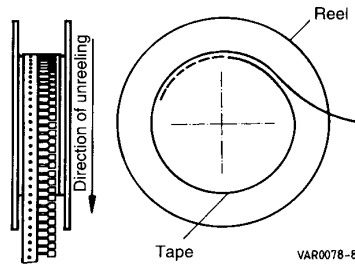
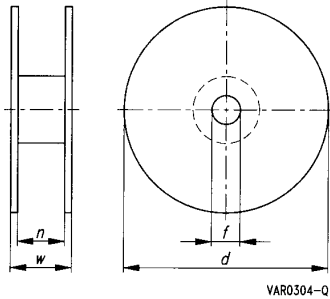


				DATA SHEET VARISTOR	
				SIOV- S07K300GS3	
				S07K300GS3.doc	
b	-	02.02.01		B72207-S301-K311-*-7600	
Ausg.	Mitteilung	Datum	Name		
Issue	Info No.	Date	Sign	3	

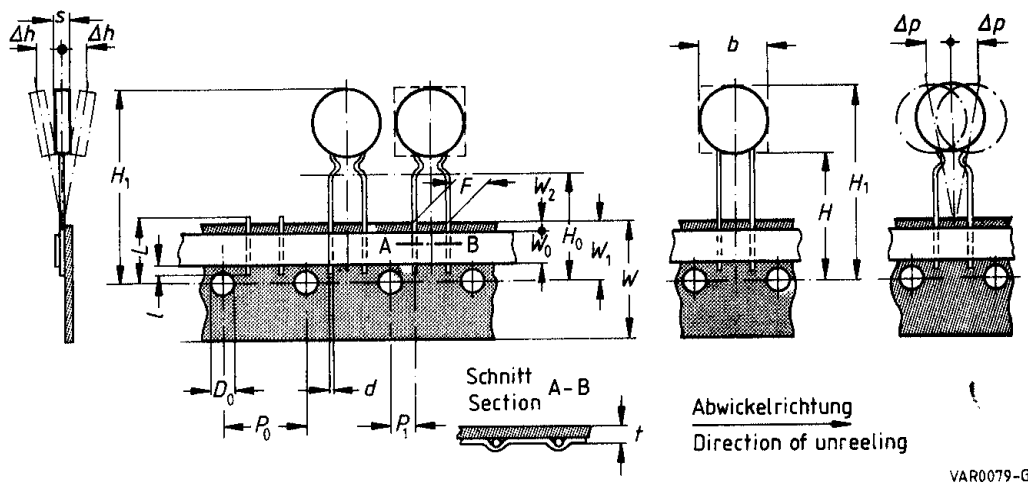



Taping

Package Unit: 1000 pcs./reel



- d_{max} = 360mm
- w_{max} = 54mm
- f = $31 \pm 1,0$ mm
- n = 45mm (typ.)



				DATA SHEET VARISTOR	
				SIOV- S07K300GS3	
				S07K300GS3.doc	
b	-	02.02.01			B72207-S301-K311-*-7600
Ausg. Issue	Mitteilung Info No.	Datum Date	Name Sign		

Reliability Data:

	Characteristics	Test Methods/Description	Specifications
E L E C T R I C A L	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 (8/20µs) illustrated below applied.	To meet the specified value.
	Surge current derating, 8/20 µs	100 surge currents (8/20 µs), unipolar, interval 30 s, amplitude corresponding to derating curve for 20 µs	$ \Delta V/V (1 \text{ mA}) \leq 10 \%$ (measured in direction of surge current) No visible damage
	Surge current derating, 2 ms	100 surge currents (2ms), unipolar, interval 120s, amplitude corresponding to derating curve for 2ms	$ \Delta V/V (1 \text{ mA}) \leq 10 \%$ (measured in direction of surge current) No visible damage

				DATA SHEET VARISTOR	
				SIOV- S07K300GS3	
				S07K300GS3.doc	
b	-	02.02.01		B72207-S301-K311-*-7600	
Ausg.	Mitteilung	Datum	Name		
Issue	Info No.	Date	Sign		
				6	

	Characteristics	Test Methods/Description	Specifications										
M	Tensile strength	<p>After gradually applying the force specified below and keeping the unit fixed for 10 seconds, the terminal shall be visually examined for any damage.</p> <table border="1"> <thead> <tr> <th>Terminal diameter</th> <th>Force</th> </tr> </thead> <tbody> <tr> <td>0.5 mm</td> <td>5 N</td> </tr> <tr> <td>0.6 mm</td> <td>10 N</td> </tr> <tr> <td>0.8 mm</td> <td>10 N</td> </tr> <tr> <td>1.0 mm</td> <td>20 N</td> </tr> </tbody> </table>	Terminal diameter	Force	0.5 mm	5 N	0.6 mm	10 N	0.8 mm	10 N	1.0 mm	20 N	<p> $\Delta V/V$ (1 mA) $\leq 5 \%$ No break of solder joint, no wire break</p>
	Terminal diameter	Force											
0.5 mm	5 N												
0.6 mm	10 N												
0.8 mm	10 N												
1.0 mm	20 N												
E C H	Vibration	<p>After repeatedly applying a single harmonic vibration according to the table below. Thereafter, the unit shall be visually examined.</p> <p>frequency range: 10 55 Hz amplitude: 0.75 mm or 98 m/s² duration: 6 h (3 x 2 h) pulse: sine wave</p>	<p> $\Delta V/V$ (1 mA) $\leq 5 \%$ No visible damage</p>										
A N I C A L	Solderability	<p>After dipping the terminals to a depth of approximately 3 mm from the body in a soldering bath of 235°C for 5 seconds, 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 times 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>										

				DATA SHEET VARISTOR	
				SIOV- S07K300GS3	
				S07K300GS3.doc	
b	-	02.02.01		B72207-S301-K311-*-7600	
Ausg. Issue	Mitteilung Info No.	Datum Date	Name Sign		
				Bl./Page 7	

