

Leaded Varistors

Telecom Series

Construction

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

Features

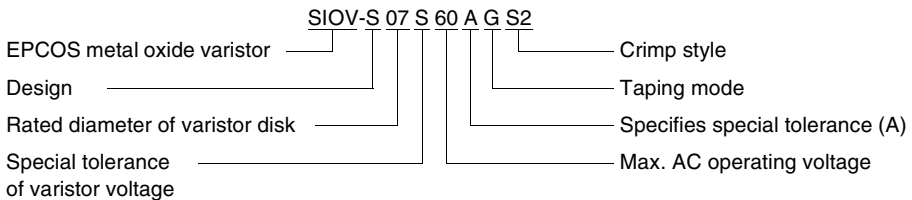
- Suitable for handling the surge current of the 10/700 μ s pulse to ITU-T and IEC 1000-4-5
- Suitable for handling the increased surge voltage according to the directives of Germany's telecom administration
- Matched to line conditions with or without superimposed ringing voltage
- Electrical SMD equivalents available
- PSpice models

Taping

- Only available on tape

Type designation

Detailed description of coding system on page 39, chapter "General Technical Information"



General technical data

Climatic category	40/85/56	in accordance with IEC 60068-1
LCT	– 40 °C	
UCT	+ 85 °C	
Damp heat, steady state (93 % r.h., 40 °C)	56 days	in accordance with IEC 60068-2-3
Operating temperature	– 40 ... + 85 °C	in accordance with CECC 42 000
Storage temperature	– 40 ... + 125 °C	
Electric strength	$\geq 2,5 \text{ kV}_{\text{RMS}}$	in accordance with CECC 42 000
Insulation resistance	$\geq 10 \text{ M}\Omega$	in accordance with CECC 42 000
Response time	< 25 ns	



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

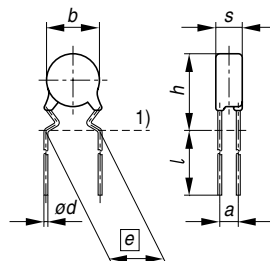
Type	Ordering code	V_{RMS} V	V_{DC} V	i ($10 \times$ 10/700 μ s A ¹⁾)	i_{max} 8/20 μ s A	W_{max} (2 ms) J	P_{max} W
SIOV-							
S07S60AGS2	B72207S0600S212	60	85	45	1200	4,8	0,25
S07S95AGS2	B72207S0950S212	95	125	45	1200	7,6	0,25

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

Type	V_V (1 mA) V	ΔV_V (1 mA) %	Max. clamping voltage v V		C_{typ} (1 kHz) pF	Derating curve Page	V/I char- acteristic Page
SIOV-				i A ¹⁾			
S07S60AGS2	100	+18/-1	200	45	480	247	280
S07S95AGS2	150	+10/-2	270	45	260	247	280

Note

In addition to the telecom varistors listed above, all varistors of the standard series can be used for telecom applications if the selection criteria are considered.



1) Seating plane in accordance with IEC 60717

VAR0409-K

Dimensions

Type	e +0,6/-0,1 mm	$a \pm 1$ mm	b_{max} mm	s_{max} mm	h_{max} mm	l_{min} mm	d mm
SIOV-S07S60AGS2	5,0	1,2	9,0	3,3	12,0	(*)	0,6
SIOV-S07S95AGS2	5,0	1,3	9,0	3,4	12,0	(*)	0,6

For (*) see chapter "Taping", page 211 ff.

Weight

Size	approx.
S07S60	0,6 ... 0,8 g
S07S95	0,6 ... 0,8 g

1) The test circuit according to figure 44 in chapter "Applications" yields a surge current amplitude of approx. 45 A.

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