



Radial lead metal oxide varistors

HIGHLIGHTS

- -Fast response time
- -High performance clamping voltage characteristics
- -Low standby power

APPLICATIONS

- -Diode, thyristor and triac voltage protection
- -Surge protection in industrial electronics

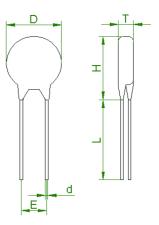


non-contractual image

RADIAL LEAD METAL OXIDE VARISTORS												
Туре	V _{rms}	$V_{\rm DC}$	Energy (J)				Varistor voltage (V)				Aprox.	
			10/1000µs	2ms	Surge current	Power rating	Nom	Min	Max	Max. Clamping	Weight (g.)	
SCV130-07	130	170	25.2	18	1200 A	0.25 W.	200	185	225	340	0.6	
SCV250-07	250	320	46.2	33			390	351	429	650	0.8	
SCV420-07	420	560	61.6	44			680	612	748	1120	1.0	
SCV130-14	130	170	79.8	57	4500 A	0.6 W.	200	185	225	340	2.1	
SCV250-14	250	320	134.4	96			390	351	429	650	2.9	
SCV420-14	420	560	168	120			680	612	748	1120	4.0	
SCV460-14	460	615	203	145			750	675	825	1240	4.2	
SCV130-20	130	170	98	70	6500 A	1 W.	200	185	225	340	4.6	
SCV250-20	250	320	182	130			390	351	429	650	6.5	
SCV420-20	420	560	224	160			680	612	748	1120	9.2	
SCV460-20	460	615	266	190			750	675	825	1240	9.8	
SCV510-20	510	670	266	190			820	738	902	1355	10.6	
SCV550-19	550	745	280	200			910	819	1001	1500	11.3	
SCV575-20	575	765	285	205			950	855	1045	1570	11.7	

DIMENSIONS

VARISTOR DIMENSIONS (RADIAL LEAD)											
Diameter	V range	T _{max}	D _{max}	H _{max}	d	E (±0,8)	L _{MIN}				
Ø7	130-250V	4.1	9	12	0.6	5	20				
(SCVxxx-07)	460	6	9	12	0.0	5	20				
Ø14	130-250V	4.5	17			7.5					
(SCVxxx-14)	420-460V	6.5	17	20	0.8	8	20				
Ø20	130-250V	4.9	25	28	0.0	7.5					
(SCVxxx-20)	420-550V	7	25	30	0.8	8	20				



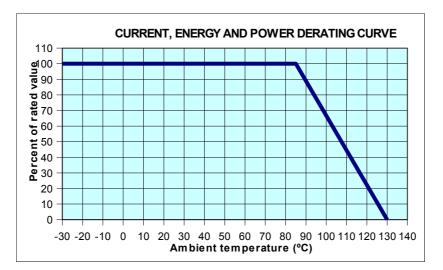
All dimensions in mm

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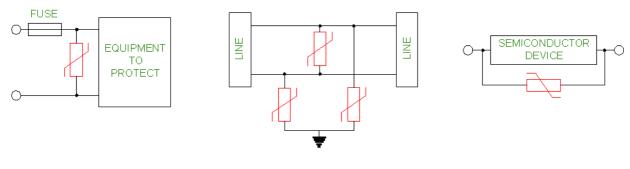
PRECAUTIONS

If the varistor be subjected to surge currents and high energy levels above maximum ratings, it may physically fail by package rupture or expulsion of material. It is recommended locate the varistor away from other components or be physically shielded from them.

Power dissipation capability is not necessary for a supressor, unless transients will be occurring in rapid succession, in practice, power rating data is only a comparative index. The operating values need to be derated at high temperatures as shown in graph.



TYPICAL CIRCUIT APPLICATIONS

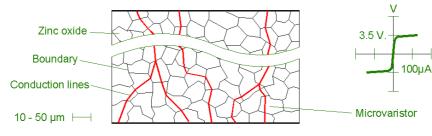


Equipment protection

Transmission line protection

Semiconductor device protection

VARISTOR INTERNAL CONSTRUCTION



Increment of parallelled boundaries = Increment of energy capability Increment of series boundaries = Increment of voltage clamping

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Cost Effective Products

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