

14.6 Metaloxide (ZnO) Varistors

Types	V_V max.	V_{DC} max.	$V_{DC} \pm 10\%$ ($I_{DC} = 1\text{ mA}$)	$\hat{I}_p^{1,2)}$ max. repetitive	$\hat{I}_p^{1,3)}$ max. non-repetitive	$\hat{W}_p^{1,3)}$ max.	$\hat{P}_{AV}$ max. $T_{amb} \leq 70^\circ\text{C}$	$\hat{V}_{pmax} (\hat{I}_p^1 = \dots)$			w
	V	V	V	A	A	J	W	(10 A) V	(100 A) V	(1000 A) V	g
Plastic package, 1 varistor											
SKVC 20 A 251	250	320	$390 \pm 15\%$	190	6500	140	$0,8^{4)}$	600	650	800	120
SKVC 20 A 460	460	615	$750 \pm 15\%$	190	6500	260	$0,8^{4)}$	1150	1270	1550	120
Plastic package, 1 varistor + 1 capacitor 0,1 μF											
SKVC 20 A 460C	460	615	$750 \pm 15\%$	190	6500	260	$0,8^{4)}$	1150	1270	1550	130

1) IEC standard current pulse waveform 8 x 20 μs

2) 10^4 times during lifetime

3) Once during lifetime

4) $T_{case} \leq 85^\circ\text{C}$. For higher values of P_{AV} see chapter B 4 last page.

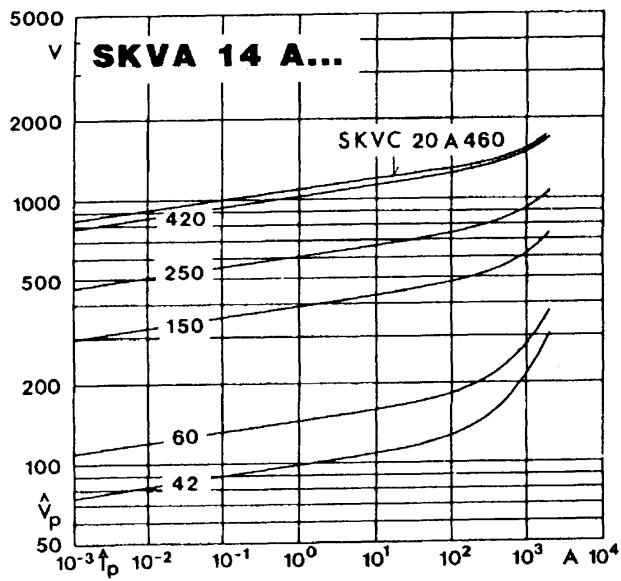


Fig. 2 a Current / voltage characteristics (pulsed)

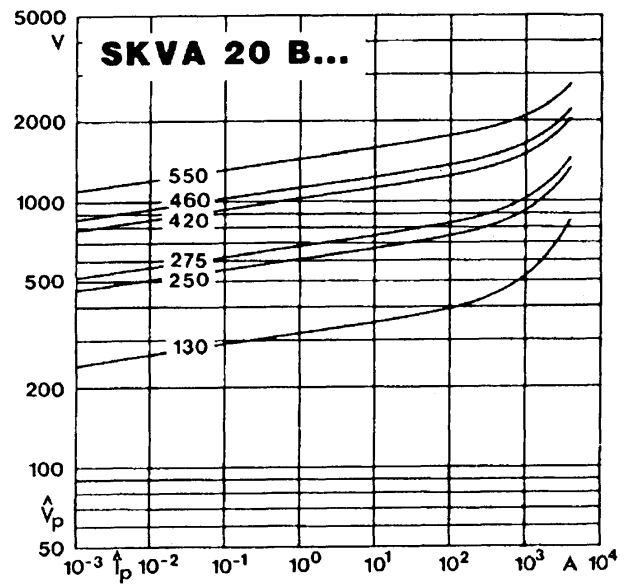


Fig. 2 b Current / voltage characteristics (pulsed)

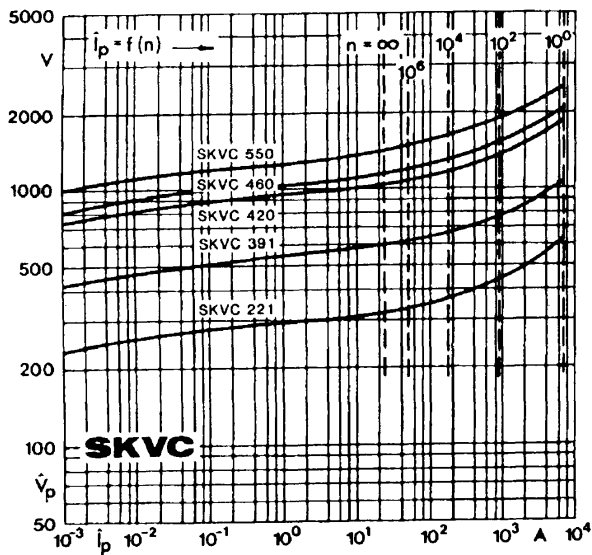


Fig. 2 c Current / voltage characteristics (pulsed)

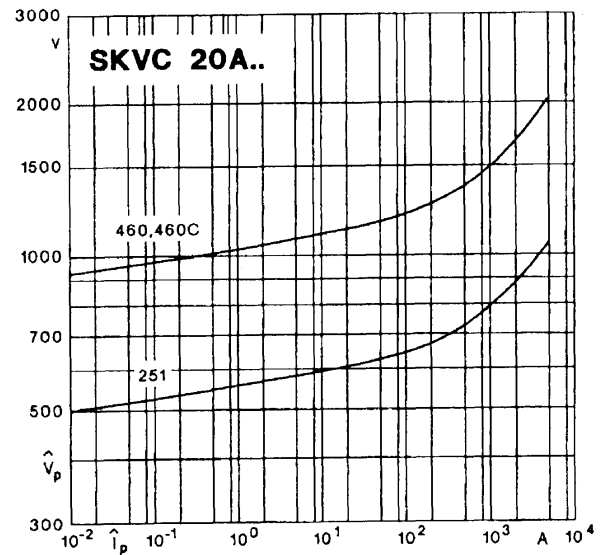
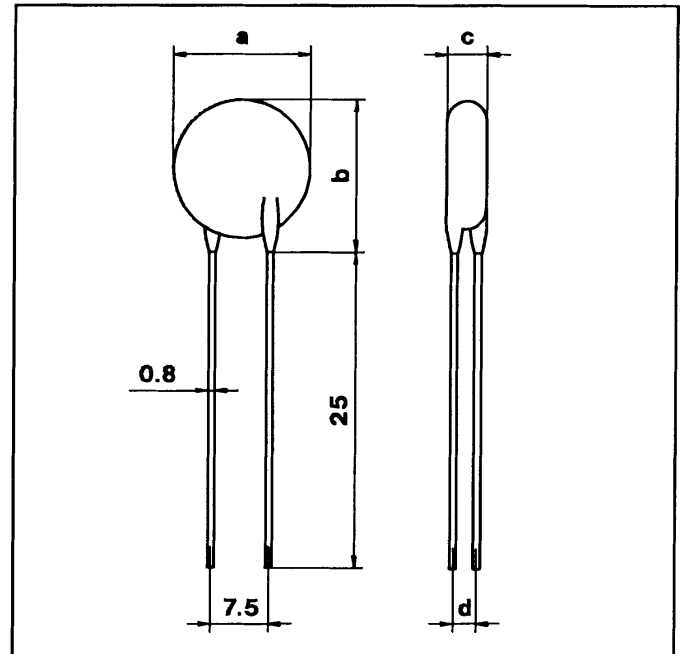


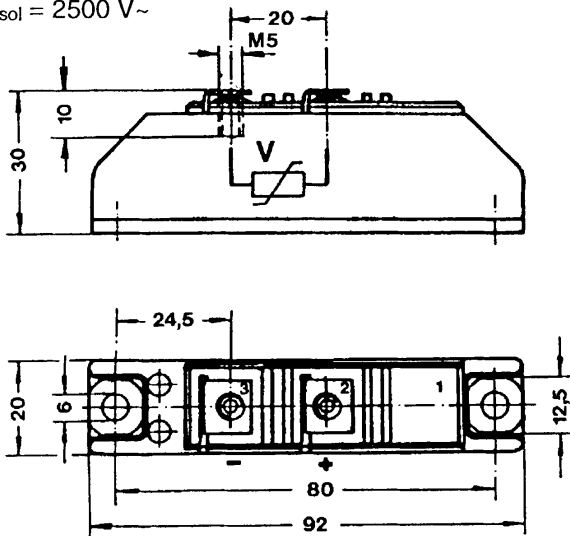
Fig. 2 d Current / voltage characteristics (pulsed)

SKVA

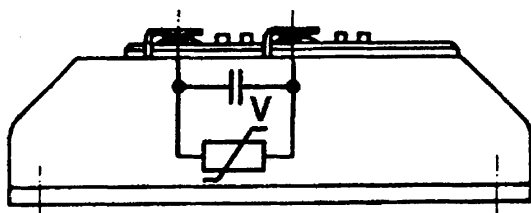
Types	Dimensions			
	a max. mm	b max. mm	c max. mm	d mm
SKVA 14 A 42	16	19		
SKVA 14 A 60	16	19	4	2,2
SKVA 20 B 130	23	26		
SKVA 14 A 150	16	19	5	2,5
SKVA 14 A 250	17	20		3,3
SKVA 20 B 250	24	27		3,3
SKVA 20 B 275	24	27	6	3,6
SKVA 14 A 320	17	20		4,0
SKVA 14 A 420	17	20	7	4,6
SKVA 20 B 420	24	27	7	4,6
SKVA 20 B 460	24	27	7	5,0
SKVA 20 B 550	24	27	8	5,6



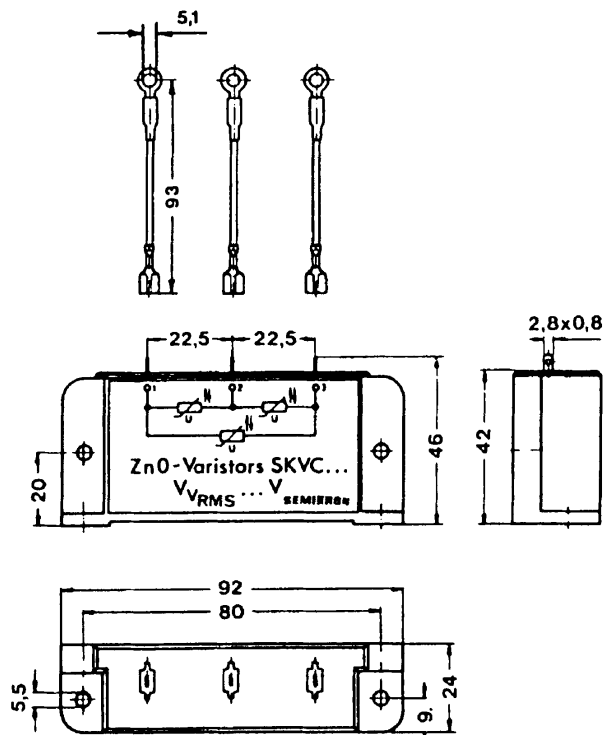
SKVC 20 A 251
SKVC 20 A 460
 $V_{isol} = 2500 \text{ V~}$



SKVC 20 A 460 C
 $V_{isol} = 2500 \text{ V~}$



SKVC 221...911
 $V_{isol} = 2500 \text{ V~}$



Dimensions in mm