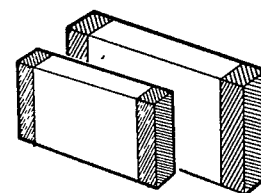


T.H.25

# SURFACE-MOUNT VARISTORS

## SC and CH SERIES



### RATINGS AND CHARACTERISTICS TABLE:

SC (3.2 x 4.6mm) , CH (5 x 8mm)  
(See page 9-30 for dimension drawing)

Model Number	Maximum Ratings (85°C)				Characteristics (25°C)							Reference Curves	
	Continuous		Transient		Varistor Voltage @ 1mA DC Test Current			Maximum Clamping Voltage V <sub>C</sub> @ Test Current (8/20μs)		Typical Capacitance			
	RMS Voltage	DC Voltage	Energy (10/1000μs)	Peak Current (8/20μs)								Min.	V <sub>N(dc)</sub>
	V <sub>m(ac)</sub>	V <sub>m(dc)</sub>	W <sub>tm</sub>	I <sub>tm</sub>	Volts	Volts	Volts	Volts	Amps	Picofarads	Page	Page	
<b>SC Series</b>													
V8SC1812	4	5.5	0.10	25	6.0	8.2	11.0	30	2	700	9-37	9-48	
V12SC1812	6	8	0.14	50	9.0	12.0	16.0	37	2	600	9-37	9-48	
V18SC1812	10	14	0.17	50	14.4	18.0	21.6	44	2	500	9-37	9-48	
V22SC1812	14	18	0.20	50	18.7	22.0	26.0	51	2	400	9-37	9-48	
V27SC1812	17	22	0.25	50	23.0	27.0	31.1	59	2	300	9-37	9-48	
V33SC1812	20	26	0.30	50	29.5	33.0	38.0	67	2	250	9-37	9-48	
V39SC1812	25	31	0.35	50	35.0	39.0	46.0	79	2	220	9-37	9-48	
V47SC1812	30	38	0.40	50	42.0	47.0	55.0	90	2	200	9-37	9-48	
<b>CH Series</b>													
V8CH8	4	5.5	0.40	100	6.0	8.2	11.0	22	5	3000	9-37	9-48	
V12CH8	6	8	0.60	250	9.0	12.0	16.0	34	5	2500	9-37	9-48	
V18CH8	10	14	0.80	250	14.4	18.0	21.6	42	5	2000	9-37	9-48	
V22CH8	14	18	*10.0	250	18.7	22.0	26.0	47	5	1600	9-37	9-48	
V27CH8	17	22	1.0	250	23.0	27.0	31.1	57	5	1300	9-37	9-48	
V33CH8	20	26	1.2	250	29.5	33.0	36.5	68	5	1100	9-37	9-48	
V39CH8	25	31	1.5	250	35.0	39.0	43.0	79	5	900	9-37	9-48	
V47CH8	30	38	1.8	250	42.0	47.0	52.0	92	5	800	9-37	9-48	
V56CH8	35	45	2.3	250	50.0	56.0	62.0	107	5	700	9-37	9-48	
V68CH8	40	56	3.0	250	61.0	68.0	75.0	127	5	600	9-37	9-48	
V82CH8	50	66	4.0	1200	74.0	82.0	91.0	135	10	500	9-37	9-48	
V100CH8	60	81	5.0	1200	90.0	100.0	110.0	165	10	400	9-37	9-48	
V120CH8	75	102	6.0	1200	108.0	120.0	132.0	200	10	300	9-37	9-48	
V150CH8	95	127	8.0	1200	135.0	150.0	165.0	250	10	250	9-37	9-48	
V180CH8	115	153	10.0	1200	162.0	180.0	198.0	295	10	200	9-37	9-48	
V200CH8	130	175	11.0	1200	184.0	200.0	228.0	340	10	180	9-37	9-48	
V220CH8	140	180	12.0	1200	198.0	220.0	242.0	360	10	160	9-37	9-48	
V240CH8	150	200	13.0	1200	212.0	240.0	268.0	360	10	150	9-37	9-48	
V360CH8	230	300	20.0	1200	324.0	360.0	396.0	595	10	100	9-37	9-48	
V390CH8	250	330	21.0	1200	354.0	390.0	429.0	650	10	90	9-37	9-48	
V430CH8	275	369	23.0	1200	389.0	430.0	473.0	710	10	80	9-37	9-48	

NOTE: Power dissipation of transients not to exceed 0.2 watts, 0.25 watts for SC, CH Series respectively.

\*Energy rating for impulse duration of 30 milliseconds minimum to one half of peak current value.

"SC1812" chips are equivalent to EIA Std 1812 (3.2 x 4.6 mm)

<sup>1</sup>See pg. 9-37 for comparison of V-I characteristics by model size for selected voltages.