

NTC Power Thermistors

Inrush Current Limiters

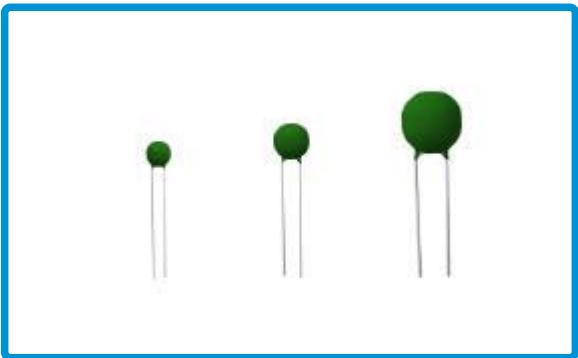
SCK Series

MERITEK

FEATURES

- High inrush current capacity
- Small power loss in steady state
(Normally 1W or less than 50W power.)
- High thermal and electrical stability
- Wide selection of electrical characteristics
- Special coating material: available silicone

UL E223037



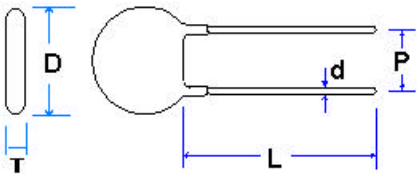
PART NUMBERING SYSTEM

	SCK	08	10	3	M		
Meritek Series							
Element Size (Diameter in m/m)							
Zero power resistance at 25 °C(Ω)							
2~3 significant digits							
Max steady state current at 25 °C(A)							
Tolerance							
CODE	L	M					
	+15%	+20%					
Lead Type							
CODE	Blank	Y					
	Straight	Kinked Y					
Package							
CODE	Blank	TR					
	Bulk	Tape & Reel					

DIMENSIONS:

Unit: mm

Disc Ø	D max	L min	d	P	Tmax
05	6.5	31	0.8 ± 0.02	4 ± 0.6	5
08	9.5	31	0.8 ± 0.02	5 ± 0.8	5
10	11.5	31	0.8 ± 0.02	5 ± 0.8	5
13	14.5	30	0.8 ± 0.02	7.5 ± 1.1	6
15	16.5	29	1.0 ± 0.02	8 ± 1.2	6
20	21.5	26	1.0 ± 0.02	8 ± 1.2	6



Specification

• SCK 05

Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max.Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK05-052	5	2	429	14	17	-40~+150
SCK05-101	10	1	1126	15	17	-40~+150
SCK05-20X3	20	0.3	5560	14	22	-40~+150

• SCK 08

Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max.Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK08-033	3	3	205	17	29	-40~+170
SCK08-042	4	2	441	17	31	-40~+170
SCK08-053	5	3	261	17	36	-40~+170
SCK08-063	6	3	283	17	38	-40~+170
SCK08-082	8	2	520	16	36	-40~+170
SCK08-102	10	2	542	17	38	-40~+170
SCK08-103	10	3	320	17	38	-40~+170
SCK08-152	15	2	548	15	38	-40~+170
SCK08-201	20	1	1544	17	41	-40~+170
SCK08-30R5	30	0.5	4094	16	33	-40~+170

• SCK 10

Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max.Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK10-015	1	5	91	17	33	-40~+170
SCK10-1R55	1.5	5	101	17	34	-40~+170
SCK10-2R55	2.5	5	120	18	46	-40~+170
SCK10-033	3	3	221	18	45	-40~+170
SCK10-034	3	4	156	18	45	-40~+170
SCK10-035	3	5	119	18	45	-40~+170
SCK10-044	4	4	161	16	40	-40~+170
SCK10-054	5	4	180	17	33	-40~+170
SCK10-055	5	5	162	17	33	-40~+170
SCK10-083	8	3	278	17	43	-40~+170
SCK10-103	10	3	297	17	46	-40~+170
SCK10-122	12	2	512	18	50	-40~+170
SCK10-123	12	3	301	18	50	-40~+170
SCK10-133	13	3	356	18	49	-40~+170
SCK10-152X	15	2.5	442	17	51	-40~+170
SCK10-162	16	2	604	18	55	-40~+170
SCK10-162X	16	2.5	442	16	45	-40~+170
SCK10-202	20	2	646	17	54	-40~+170
SCK10-252	25	2	674	17	52	-40~+170
SCK10-302	30	2	700	17	50	-40~+170
SCK10-472	47	2	720	18	49	-40~+170

SCK10-501X	50	1.5	1170	18	48	-40~+170
SCK10-502	50	2	813	18	48	-40~+170
SCK10-801	80	1	2236	17	53	-40~+170
SCK10-1001	100	1	2318	17	45	-40~+170
SCK10-1201	120	1	2406	19	54	-40~+170

• SCK 13

Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max. Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK13-1R37	1.3	7	70	17	49	-40~+200
SCK13-2R55	2.5	5	117	17	61	-40~+200
SCK13-2R56	2.5	6	94	17	48	-40~+200
SCK13-036	3	6	98	17	48	-40~+200
SCK13-055	5	5	166	18	75	-40~+200
SCK13-065	6	5	165	18	74	-40~+200
SCK13-084	8	4	206	17	65	-40~+200
SCK13-104	10	4	217	17	66	-40~+200
SCK13-124	12	4	217	17	66	-40~+200
SCK13-153	15	3	343	18	66	-40~+200
SCK13-163	16	3	348	16	68	-40~+200
SCK13-203	20	3	410	20	76	-40~+200
SCK13-204	20	4	392	20	70	-40~+200

• SCK 15

Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max. Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK15-1R38	1.3	8	64	21	59	-40~+200
SCK15-1R58	1.5	8	62	21	66	-40~+200
SCK15-028	2	8	78	20	63	-40~+200
SCK15-2R58	2.5	8	75	20	63	-40~+200
SCK15-037	3	7	91	21	73	-40~+200
SCK15-046	4	6	117	20	62	-40~+200
SCK15-048	4	8	87	27	76	-40~+200
SCK15-055	5	5	140	21	66	-40~+200
SCK15-056	5	6	121	20	66	-40~+200
SCK15-057	5	7	98	20	65	-40~+200
SCK15-065	6	5	159	20	74	-40~+200
SCK15-075	7	5	161	20	79	-40~+200
SCK15-078	7	8	108	28	57	-40~+200
SCK15-086	8	6	130	20	68	-40~+200
SCK15-105	10	5	178	20	79	-40~+200
SCK15-125	12	5	185	19	59	-40~+200

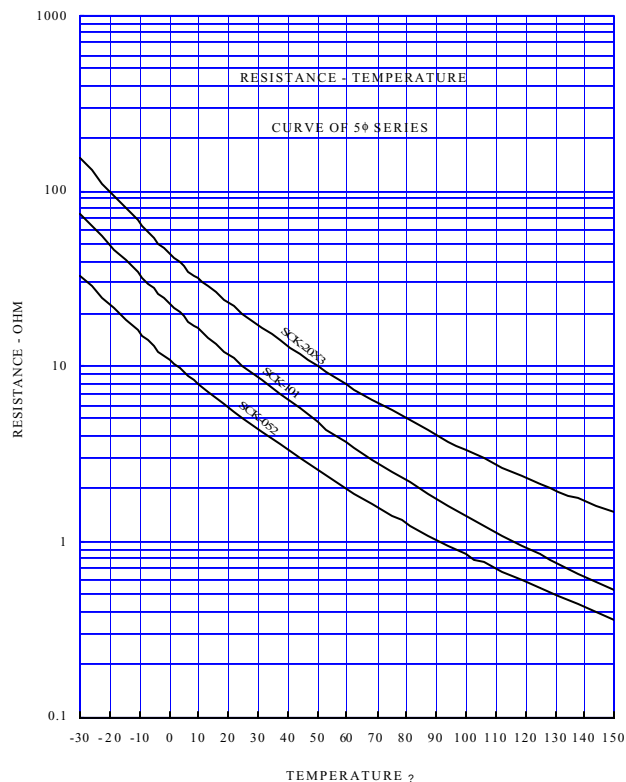
SCK15-152	15	2	704	21	77	-40~+200
SCK15-154	15	4	261	19	79	-40~+200
SCK15-164	16	4	261	19	79	-40~+200
SCK15-204	20	4	283	18	90	-40~+200
SCK15-224	22	4	308	20	80	-40~+200
SCK15-253	25	3	425	21	76	-40~+200
SCK15-303	30	3	461	20	90	-40~+200
SCK15-403	40	3	511	22	83	-40~+200
SCK15-404	40	4	360	22	86	-40~+200
SCK15-473	47	3	501	20	77	-40~+200
SCK15-802X	80	2.5	693	19	71	-40~+200
SCK15-1202	120	2	1010	19	65	-40~+200

• SCK 20

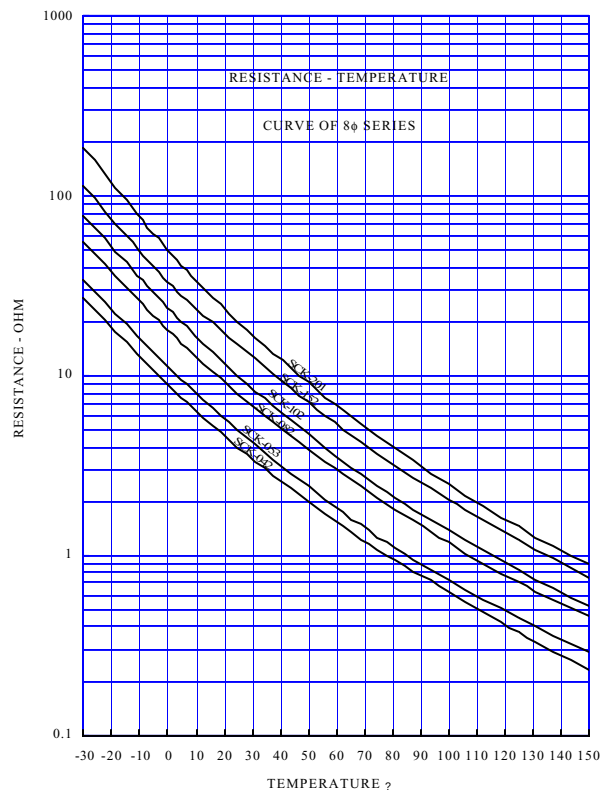
Part No	Zero Power Resistance at 25°C (Ω)	Max. Steady State Current at 25°C (A)	Approx. Resistance at Max. Current at 25°C (mΩ)	Thermal Dissipation Constant (mW/°C)	Thermal Time Constant (Sec.)	Operating Temperature (°C)
SCK20-0R78	0.7	8	59	28	96	-40~+200
SCK20-0R712	0.7	12	35	18	79	-40~+200
SCK20-0R715	0.7	15	35	29	122	-40~+200
SCK20-0120	1	20	20	25	73	-40~+200
SCK20-2R510	2.5	10	84	28	105	-40~+200
SCK20-2R512	2.5	12	60	29	104	-40~+200
SCK20-2R515	2.5	15	46	29	103	-40~+200
SCK20-0310	3	10	63	28	100	-40~+200
SCK20-058	5	8	93	28	101	-40~+200
SCK20-0510	5	10	82	29	123	-40~+200
SCK20-0512	5	12	66	29	124	-40~+200
SCK20-106	10	6	173	32	100	-40~+200
SCK20-108	10	8	122	29	119	-40~+200
SCK20-128	12	8	106	24	130	-40~+200
SCK20-138	13	8	106	24	130	-40~+200
SCK20-156	15	6	190	28	107	-40~+200
SCK20-206	20	6	190	28	107	-40~+200

• R-T CHARACTERISTIC

5 Ø

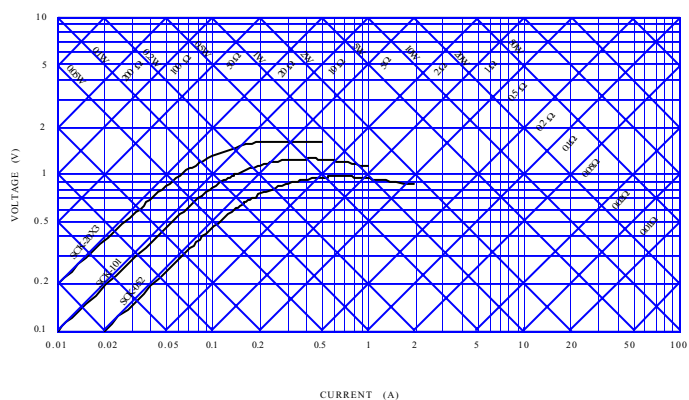


8 Ø

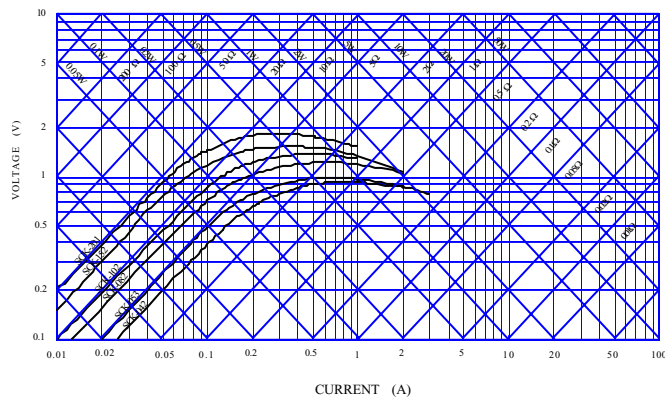


• V-I CHARACTERISTIC CURVE

5 Ø

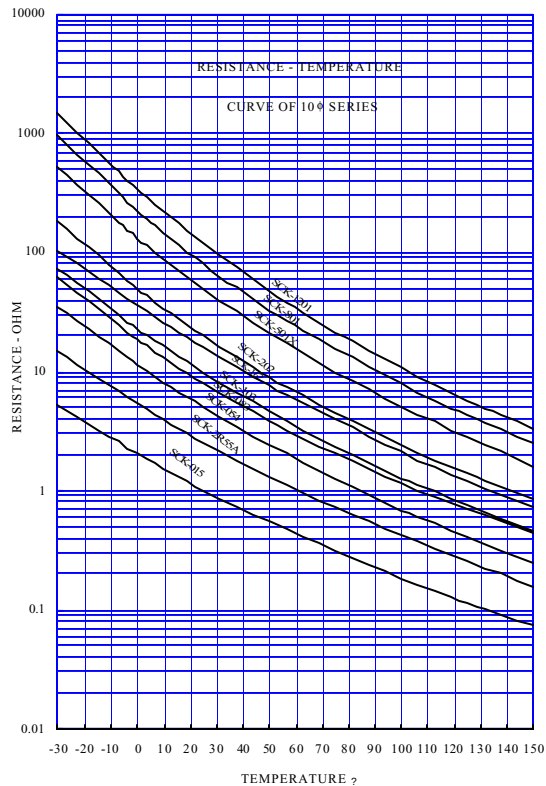


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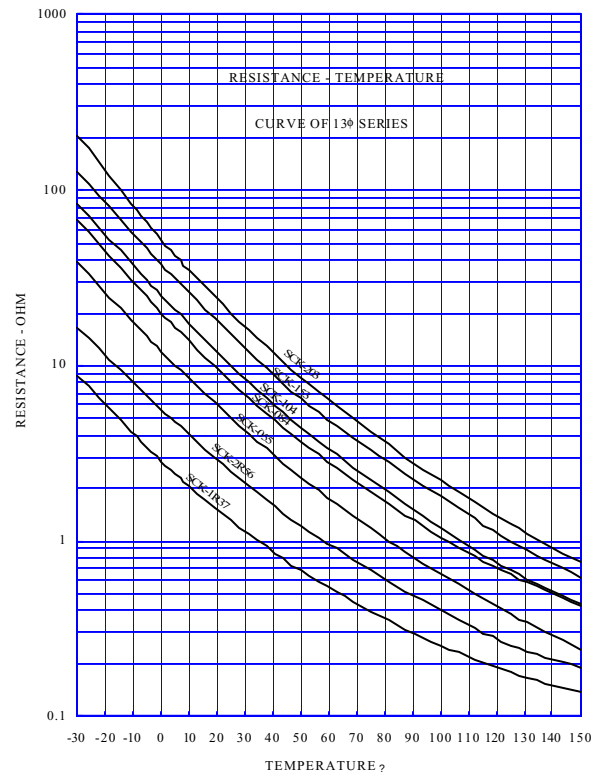


- **R-T CHARACTERISTIC**

10 Ø

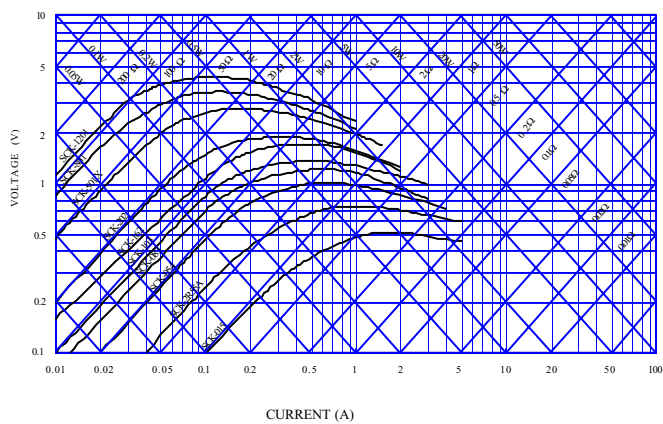


13 Ø

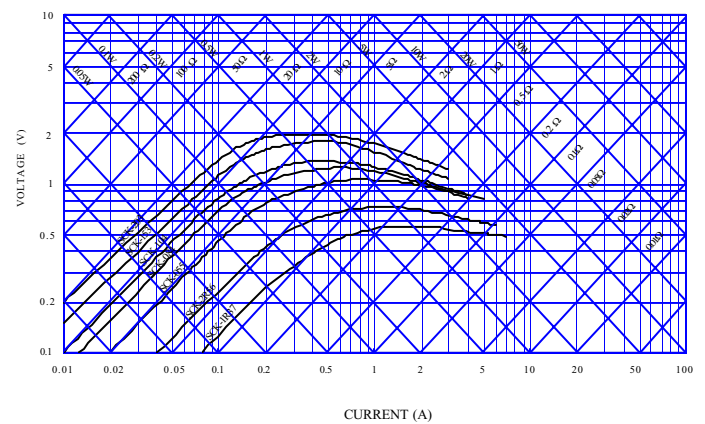


- **V-I CHARACTERISTIC CURVE**

10 Ø

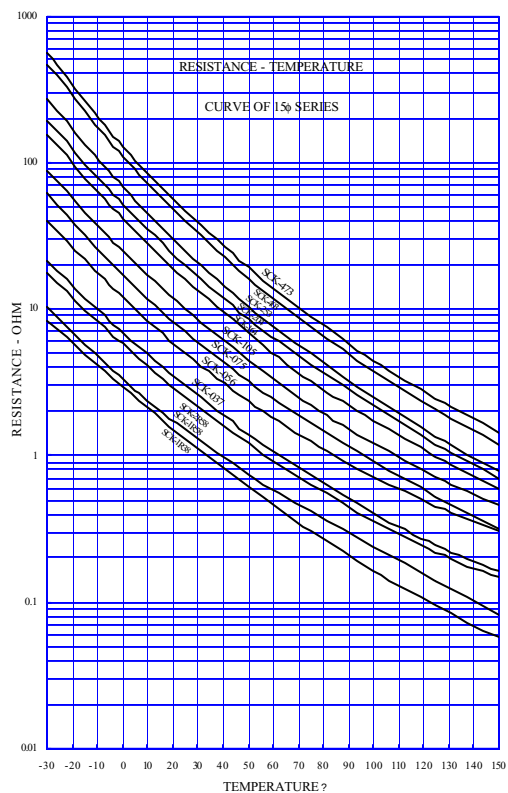


13 Ø

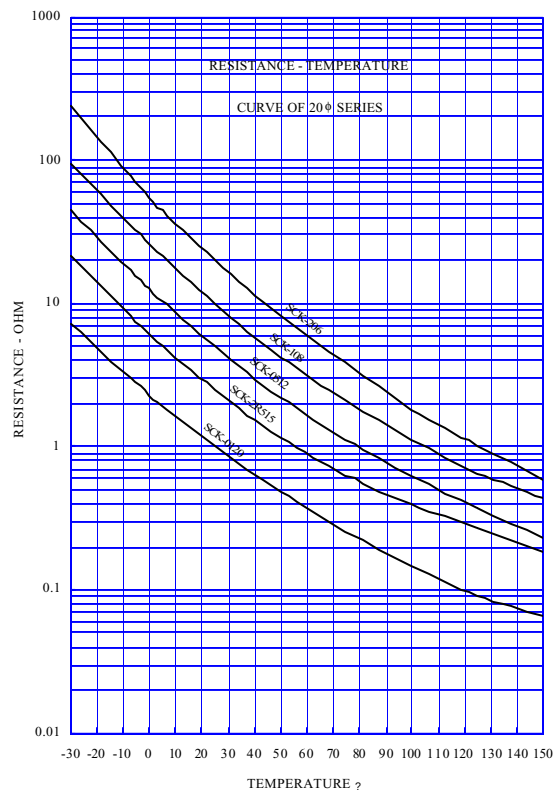


• R-T CHARACTERISTIC

15 Ø

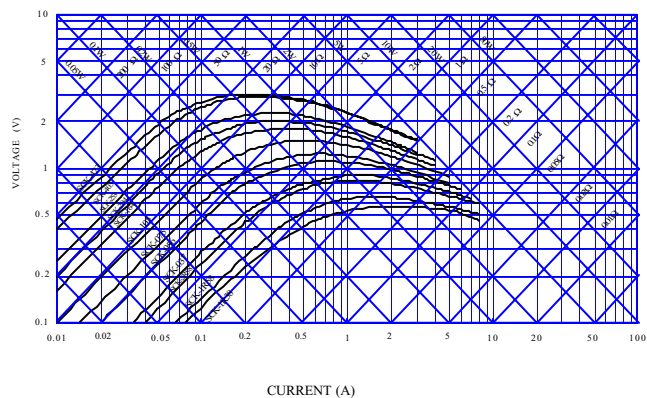


20 Ø



• V-I CHARACTERISTIC CURVE

15 Ø



20 Ø

