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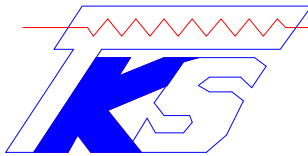
SPECIFICATION FOR APPROVAL

CUSTOMER	C-CUBEE
MODEL NO.	SCK-102
PART NO.	SCK08102MIA
APPLICATION	
CUSTOMER	
MODEL NO.	6322AQ9189F
DATE	Apr. 26, 2004

FOR CUSTOMER APPROVAL	CHECKED BY
	Ouyang
	APPROVED BY
	Daviewei



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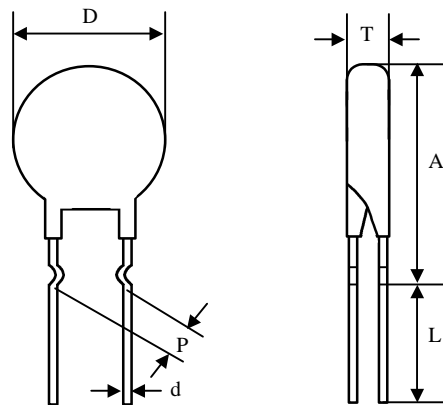
Specification of NTC Thermistor for Surge Current Suppression

PART NO. SCK08102MIACUSTOMER P/N. 6322AQ9189F

1. Part number code

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Product Code		Body Size		Zero Power Resistance at 25 (R ₂₅)		Max Steady State Current at 25		Tolerance of R ₂₅		Appearance					
SCK	Thinking NTC Thermistor SCK Type	05	5mm	0R5	0.5	X3	0.3A	L	±15%	S	Straight Lead				
		08	8mm	2R5	2.5	2X	2.5A	M	±20%	I	Inner Kink Lead				
		10	10mm	08	8	8	8A	N	±25%	F	Y Kink Lead				
		13	13mm	20	20	10	10A			SC	Straight Cut Lead				
		15	15mm	120	120					:	:				

2. Dimensions



(unit:mm)

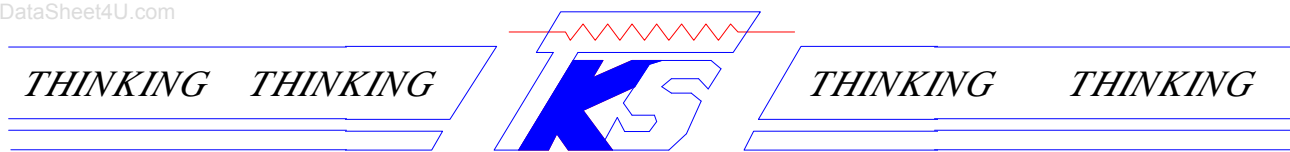
Disc size	D max.	P nor.	d nor.	A max.	T max.
φ 08	9.5	5.0±0.8	0.8±0.02	16	5

2-1 Material of coating : Silicone resin

2-2 Material of Leads : Tinned copper wires

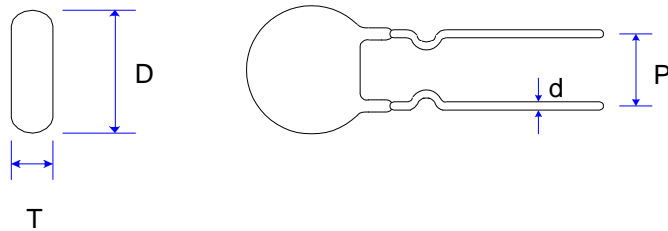
2-3 Color of coating : Green

2-4 Print of Marking : SCK 102



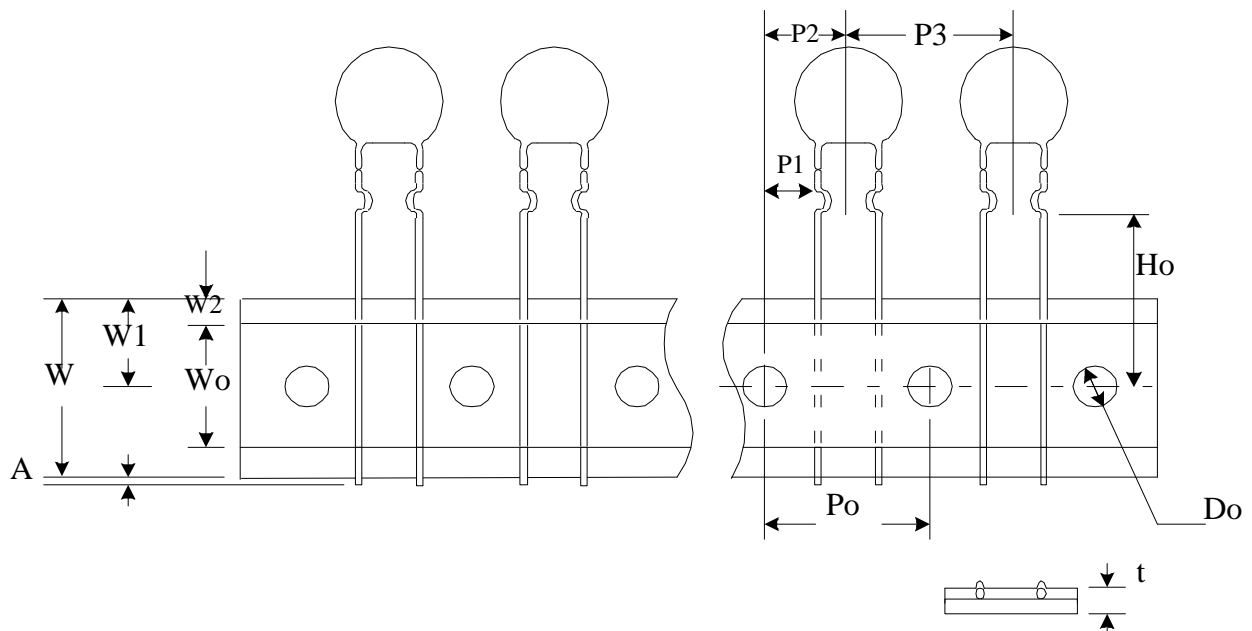
TAPED TYPE

1. Dimensions



ITEM	D	L	d	P	T
MAX.	9.5		0.82	5.8	5
MIN.			0.78	4.2	

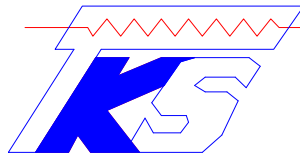
(Unit : mm)



ITEM	Po	P3	P1	P2	Ho	Wo	W1	W2	W	A	Do	t
Nor.	12.7	12.7	3.45	6.35	16	12	9	3	18	1	4	0.6
Tol.	±0.5	±0.5	±0.7	±1.3	±0.5	±1	±0.5	±1	±0.5	Max.	±0.2	±0.2

(Unit : mm)

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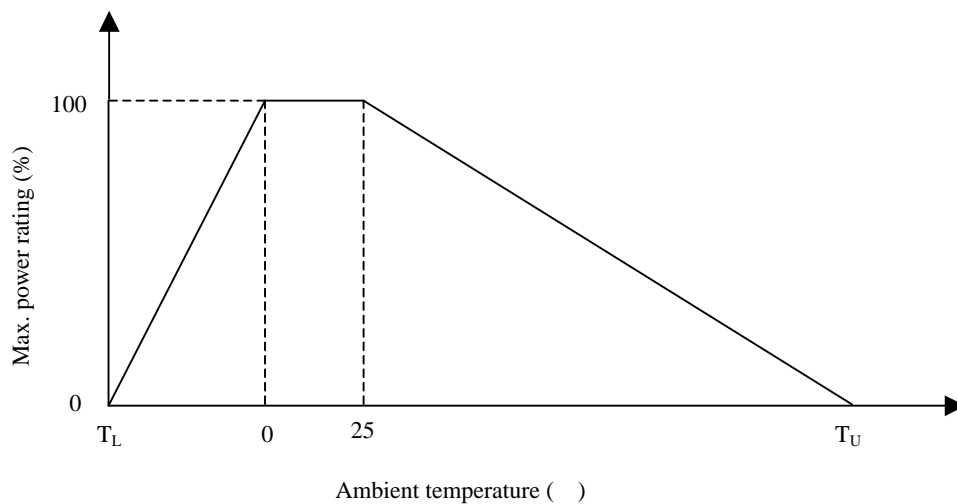


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3. Characteristics

Part no.	Zero power resistance at 25 (Ω)	Max. Steady State current at 25 (A)	Max. power rating at 25 (W)	Thermal dissipation constant (mW/)	Thermal time Constant (sec.)	Capacitance at 240Vac (μF)	Operating temperature range ()
SCK08102MIA	10±20%	2	2.3	16	38	470	-40 ~+170

4. Maximum power rating (Pmax)



Note: T_L = Minimum Temp. of Operating Temp. Range (°C)

T_U = Maximum Temp. of Operating Temp. Range (°C)

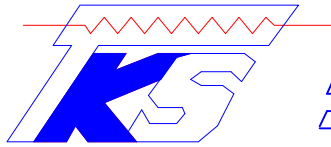
5. Approvals



* UL 1434 recognized (File # E138827)



* CSA recognized (File # 97495)



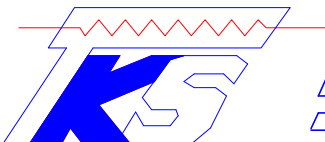
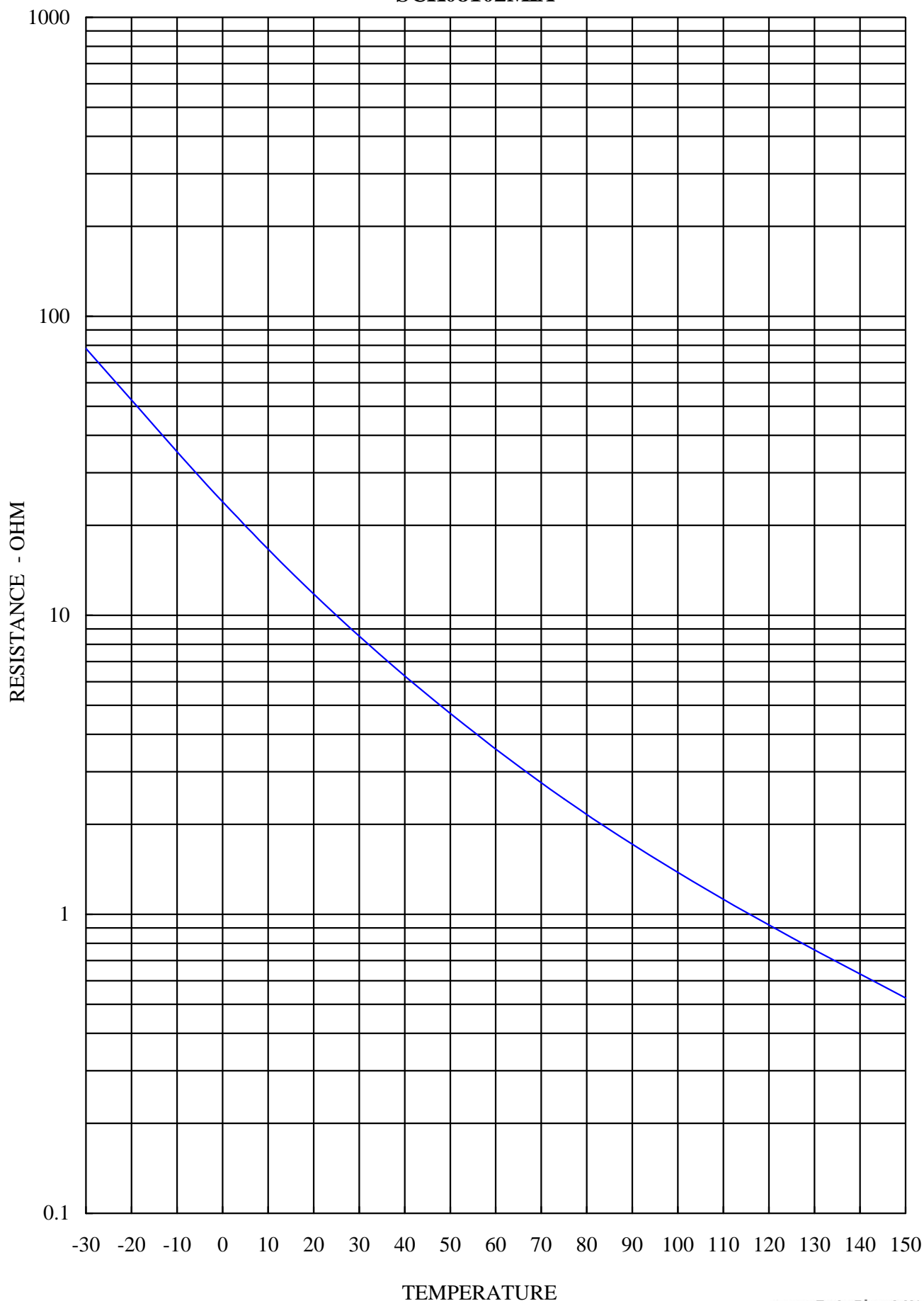
6. Reliability Test

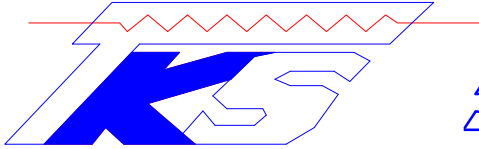
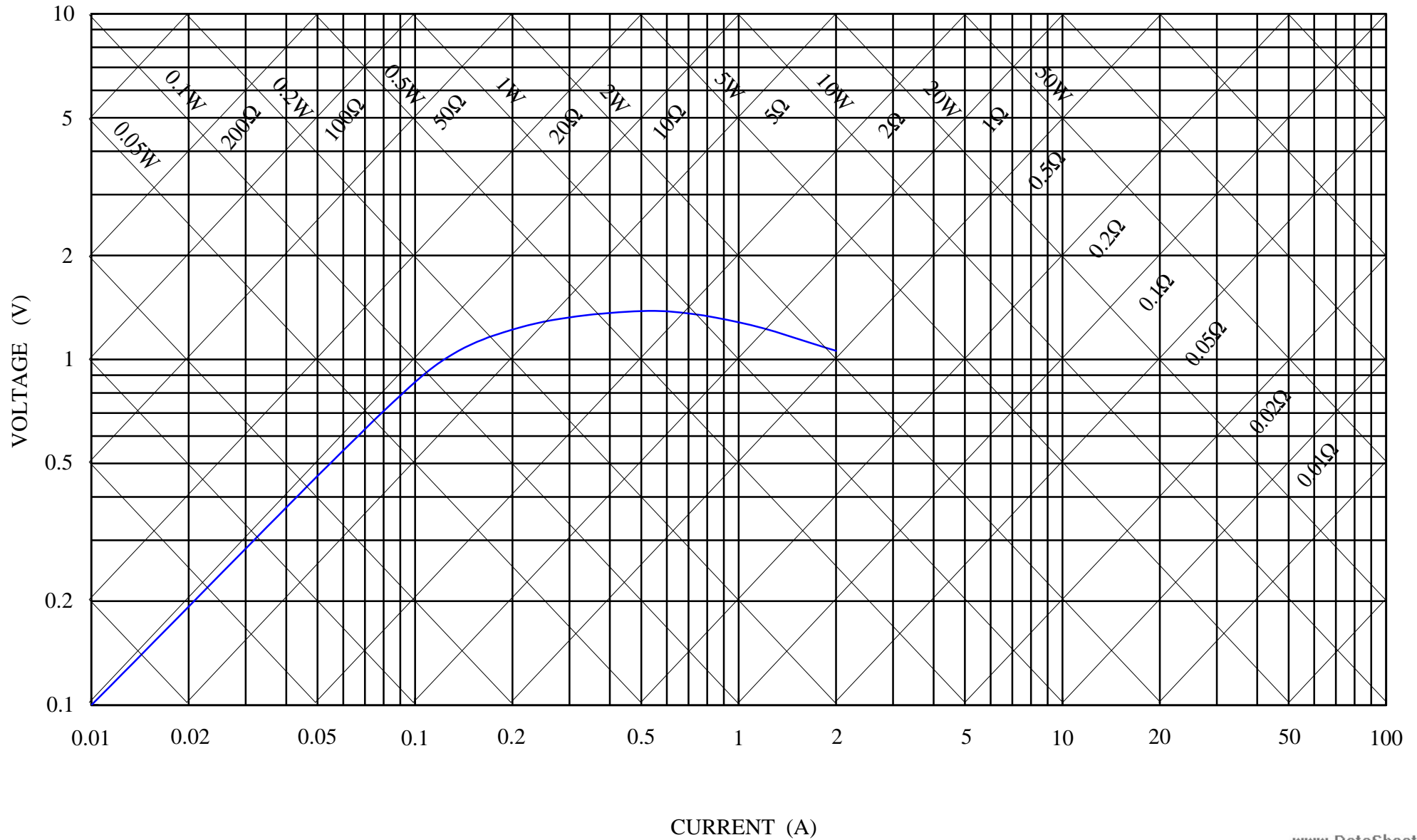
Item	Standard	Test conditions / Methods	Specifications															
Tensile Strength of Terminals	IEC68-2-21	Gradually applying the force specified below to each terminal and keeping the unit fixed for 10±1 sec. <table><tr><td>Terminal diameter (mm)</td><td>Force (kg)</td></tr><tr><td>0.5<d 0.8</td><td>1.0</td></tr><tr><td>0.8<d 1.25</td><td>2.0</td></tr></table>	Terminal diameter (mm)	Force (kg)	0.5<d 0.8	1.0	0.8<d 1.25	2.0	No visible damage									
Terminal diameter (mm)	Force (kg)																	
0.5<d 0.8	1.0																	
0.8<d 1.25	2.0																	
Bending Strength of Terminals	IEC68-2-21	Hanging the force specified below to each terminal and gradually bending each terminal by 90° in one direction, then 90° in the opposite direction, and again back to the origin. <table><tr><td>Terminal diameter (mm)</td><td>Force (kg)</td></tr><tr><td>0.5<d 0.8</td><td>0.5</td></tr><tr><td>0.8<d 1.25</td><td>1.0</td></tr></table>	Terminal diameter (mm)	Force (kg)	0.5<d 0.8	0.5	0.8<d 1.25	1.0	No visible damage									
Terminal diameter (mm)	Force (kg)																	
0.5<d 0.8	0.5																	
0.8<d 1.25	1.0																	
Solderability	IEC68-2-20	235 ±5 , 2 ± 0.5 sec	At least 95% of terminal electrode is covered by new solder															
Resistance to Soldering Heat	IEC68-2-20	350 ±5 , 3.5 ±0.5 sec	No visible damage R/R 10 %															
High Temperature Storage	IEC68-2-2 UL1434	Tmax ±5 x 1000HRS	No visible damage R/R 20 %															
Damp Heat	IEC68-2-3 UL1434	40 ± 2 , 9 0 ~ 95 % RH , 1000 ±24 HRS	No visible damage R/R 20 %															
Thermal Shock	IEC68-2-14 UL1434	The thermal shock conditions shown below shall be repeated 5 cycles <table><tr><td>Step</td><td>Temperature ()</td><td>Period (minutes)</td></tr><tr><td>1</td><td>Tmin±5</td><td>30±3</td></tr><tr><td>2</td><td>Room temperature</td><td>5±3</td></tr><tr><td>3</td><td>Tmax±5</td><td>30±3</td></tr><tr><td>4</td><td>Room temperature</td><td>5±3</td></tr></table>	Step	Temperature ()	Period (minutes)	1	Tmin±5	30±3	2	Room temperature	5±3	3	Tmax±5	30±3	4	Room temperature	5±3	No visible damage R/R 20 %
Step	Temperature ()	Period (minutes)																
1	Tmin±5	30±3																
2	Room temperature	5±3																
3	Tmax±5	30±3																
4	Room temperature	5±3																
Life Test	CNS5550	25 ±5 , Imax. x 1000 HRS	No visible damage R/R 20 %															
Endurance	UL1434	25 ±5 ,Imax. , CT , 1min ON / 5 min OFF x1000 cycles CT=Capacitance at 240Vac	No visible damage R/R 20 %															
Insulation test	MIL-STD-202F-Method 302	1000 VDC 1 min	No visible damage 500 MΩ															

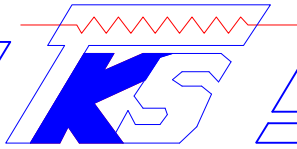
Products have been tested at Thinking Electronic

Industrial Co., Ltd. Laboratory recognized by UL (Underwriters Laboratories Inc.) under CTD

(Client Test Data Program).

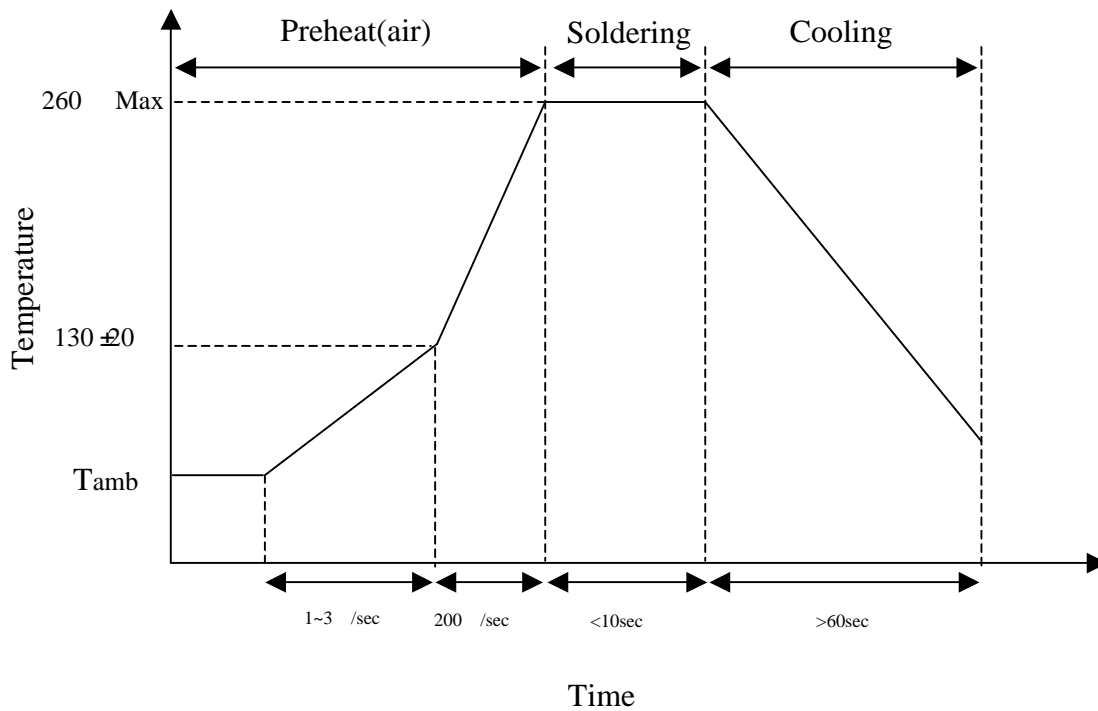
THINKING THINKING*THINKING THINKING***7. R-T characteristic curve****SCK08102MIA**

THINKING THINKING*THINKING THINKING***8. V-I characteristic curve (Ambient Ta=25)****SCK08102MIA**

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9. Wave Flow

Recommended Wave Soldering Profile



Recommended Reworking Conditions With Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360 (max.)
Soldering Time	2 sec (max.)
Distance from coating	6 mm (min.)