

A. Material List

NO.	ITEM	DESCRIPTION
1	TERMINAL	C50301BL-2
2	COATING RESIN	BLACK EPOXY
3	WIRE	Φ0.5mm Tin-plated Copper wire

B. Electrical Characteristic

ITEM	VALUE
R25	100K Ω±5%
B25/85	4529K+/-3%

Customer	
Customer P/N	
Thinking P/N	NTSA0104JZ084

Rev.	Subjects of Change	Scale:		Tol:	±mm	Unit:	mm	Drawing NO.	SA0308005
		Approved by		Checked by		Designed by		Date	2007.05.08
		FM,CH		JUN,WANG		YU LIANG YANG		THINKING ELECTRONIC INDUSTRIAL CO.,LTD	

Specification of NTC Thermistor for Temperature Measurement and Control

PART NO . NTSA0104JZ084

CUSTOMER P/N . _____

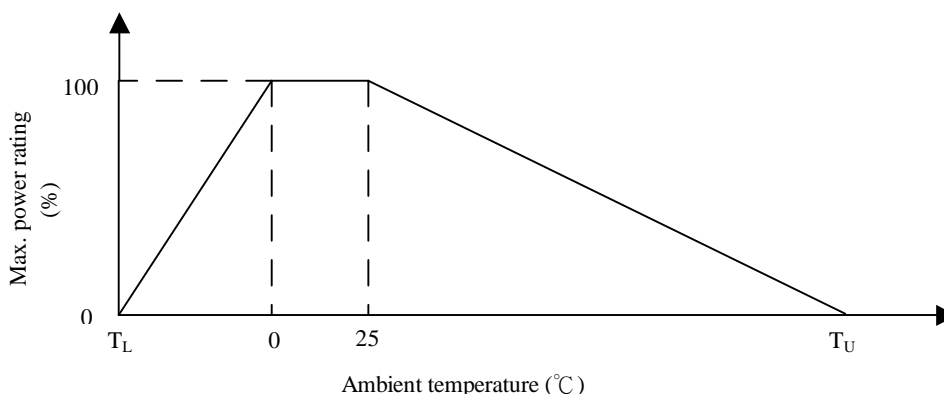
1. Electrical characteristics

	Parameter	Symbol	Test Conditions	Min.	Nor.	Max.	Unit.
a.	Resistance At 25°C	R_{25}	$T_a=25^{\circ}\text{C}\pm 0.05^{\circ}\text{C}$ $P_T \leq 0.1\text{mW}$	95.00	100	105.00	$\text{K}\Omega$
b.	Resistance At 85°C	R_{85}	$T_a=85^{\circ}\text{C}\pm 0.05^{\circ}\text{C}$ $P_T \leq 0.1\text{mW}$	-----	7.850	-----	$\text{K}\Omega$
c.	R_{25}/R_{85}	K	-----	-----	12.741	-----	
d	B Constant	$B_{25/85}$	$(1779.707 * \text{Ln}K)$	4393	4529	4665	K
e.	Thermal Dissipation Constant	δ	$T_a=25^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$	5	-----	-----	$\text{mW}/^{\circ}\text{C}$
f.	Thermal Time Constant	τ	$T_a=25^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$	-----	11		Sec
g.	Hi-Pot Test	-----	1000V AC 1 sec	-----	-----	10	mA

2. Maximum Ratings

	Parameter	Specification	Unit
a.	Operation Temperature Range	-20 ----- +125	$^{\circ}\text{C}$
b.	Maximum Power Rating (At 25°C)	150	mW

Maximum power rating (P_{max})



Note: T_L = Minimum Temp. of Operating Temp. Range ($^{\circ}\text{C}$)

T_U = Maximum Temp. of Operating Temp. Range ($^{\circ}\text{C}$)

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3. Mechanical Characteristics

3-1. Leads Terminal Tensile Strength

Conditions	Test Result	
Fasten body with a Load Applied to each lead 1.0 kg for 10 sec.	No physical damage and electrical characteristic normal	OK

4. Reliability Test

Item	Test Conditions	Variable
Temp. cycle test	-20 °C X 30min → +25 °C X 5min X 5Cycles +125 °C X 30min → +25 °C X 5min	Within ± 5 %
Humidity test	40 °C 95 % RH X 1000 HRS	Within ± 5 %

