Approval

Approved By:	Checked By:	Prepared By :

Approved By:	Examined By:	Tested By :

Company's Stamp	

Company's Stamp	

Approval No. : _____

Product : NTC THERMISTOR

E Way's Part No. : SMD03-152 J 4100 H

Customer's Part No. : _____

Specifications : R_{25} 1,500 Ω ± 5 %

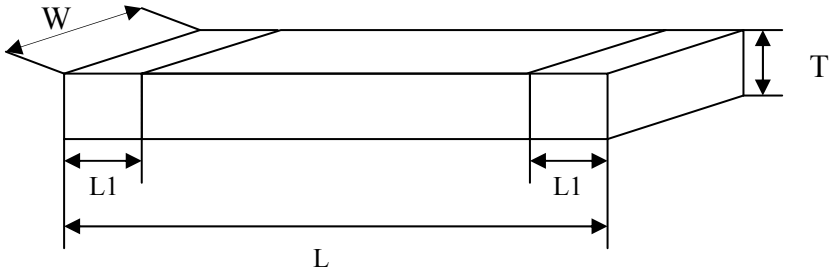
$B_{25\text{-}85}$ 4100 °K ± 3 %

Date : _____

Specification of SMD Chips Thermistor

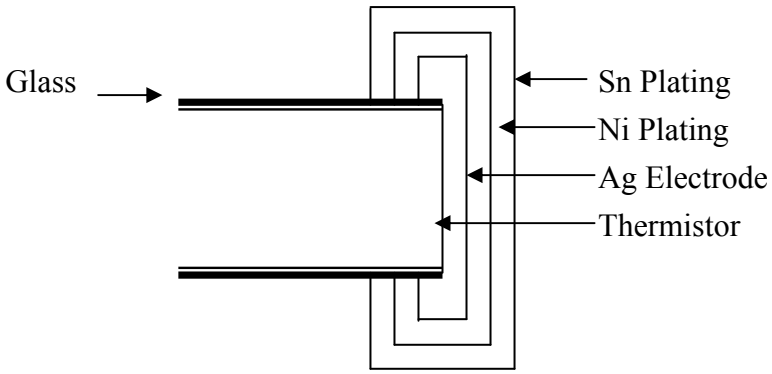
♦ PART NO. : SMD03-152J 4100H

♦ CHIP DIMENSIONS



Item	L(mm)	W(mm)	T(mm)	L1(mm)
1608 (0603)	1.60 ±0.15	0.80 ±0.15	0.95 max	0.20~0.50

♦ CHIP STRUCTURE



♦ ELECTRICAL CHARACTERISTICS

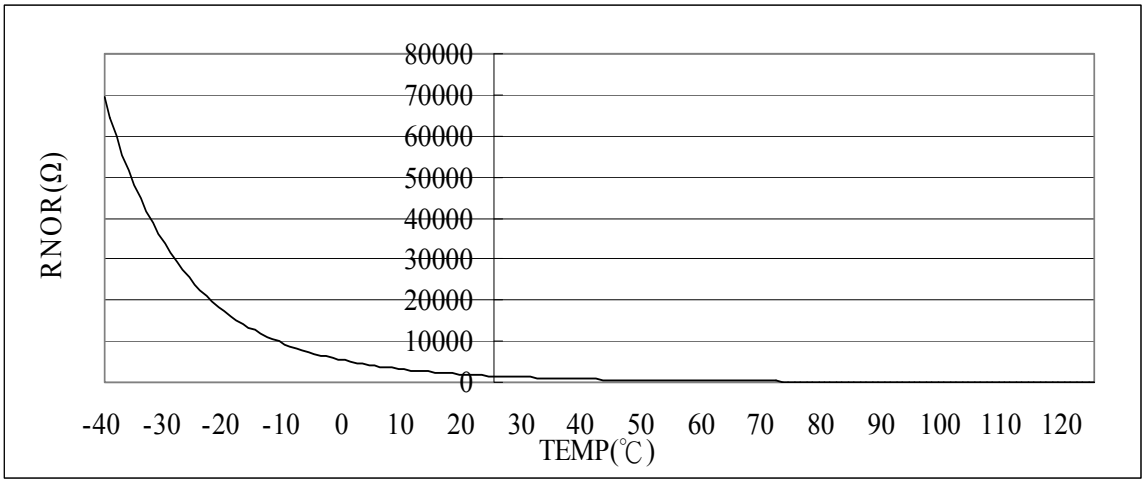
Style	Symbol	Condition	Specification
Resistance at 25℃	R_{25}	T = 25 ± 0.1℃	1.5 K Ω ± 5 %
B Constant	B	25℃ to 85℃	4100 ˚K ± 3 %
Thermal Time Constant	T	T = 25 ± 0.1℃	Approx. 5 sec
Thermal Dissipation Constant	C	T = 25 ± 0.1℃	Approx. 3.5 mW/℃
Maximum Power Rating*	Pw	T = 25 ± 0.1℃	350 mW
Operation Temp. Range	--	--	-40℃ ~ 125℃

*Maximum Power Rating = Thermal Dissipation Constant × (125℃-25℃)

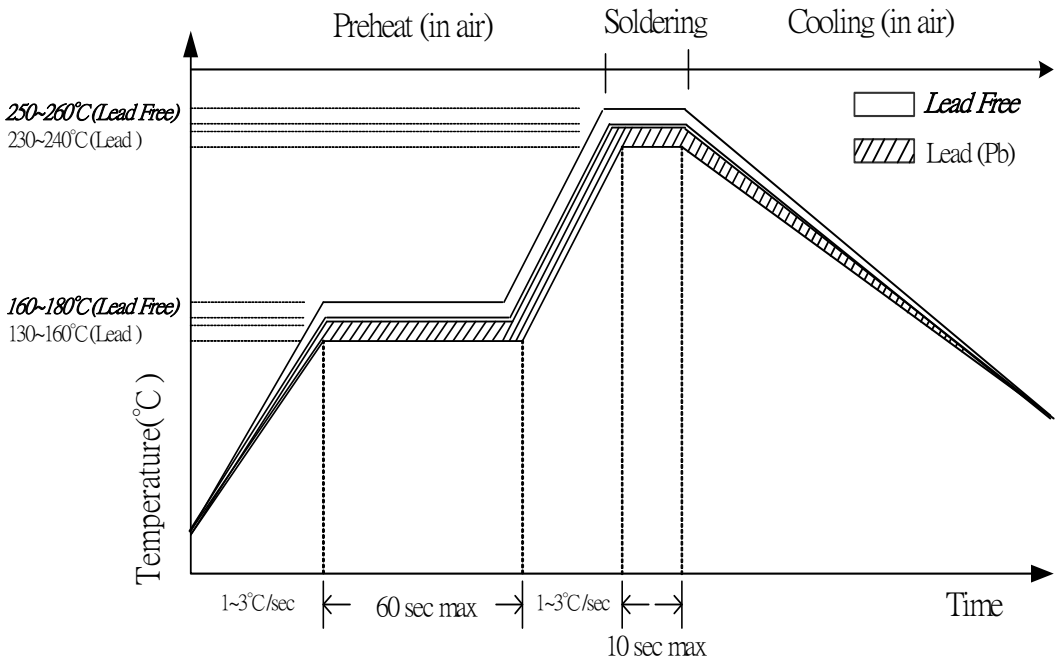
♦ RELIABILITY TEST

PERFORMANCE	TEST METHOD	APPRAISE
Life	MIL – STD – 202F , Method 108A 1000 hours at 125℃ NTC WV intermittent	Within ±3 %
Humidity	MIL – STD – 202F , Method 103B 1000 hours at Temperature: 40℃ Humidity: 95%	Within ±3 %
Thermal Shock	MIL – STD – 202F , Method 107 10 cycles, -40℃ to +125℃	Within ±3 %
Solderability	MIL – STD – 202F , Method 208 235℃ for 2 seconds	95% min. coverage
Resistance to Soldering Heat	MIL – R – 55342D , Para 4.7.7 Soldered to test board at 260℃ for 10 seconds	Within ±3 %
Bending Strength	JIS C 5202 6.1.4 Pressurizing rod at a rate at 1mm/sec for 1mm	Within ±3 %
Resistance to flexure of Substrate	JIS C 5202 6.2.1 Pressurizing force shall be 3kg (min.)	Over 3 kg
Insulation Resistance	MIL – STD – 202F , Method 302 DC 250V For 10 seconds	Over 1000MΩ
Dielectric Withstand Voltage	MIL – STD – 202F , Method 301 DC 250V For 10 seconds	Not Short

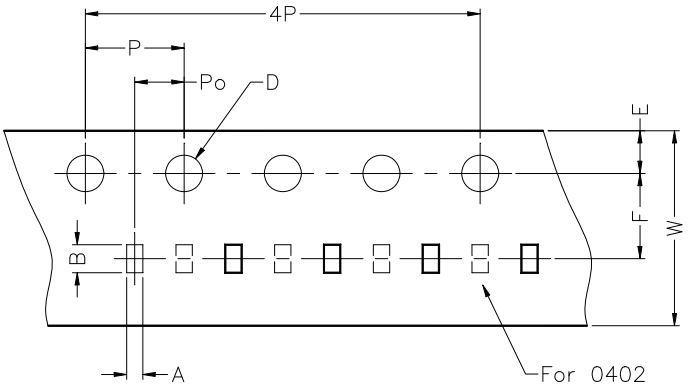
♦ RESISTANCE – TEMP CURVE



♦ REFLOW SOLDERING PROFILE



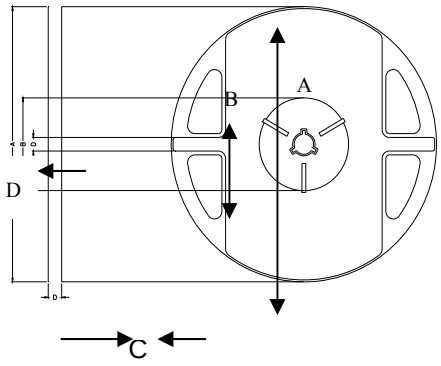
♦ TAPING DIMENSIONS



Unit: mm

Dimension	1206	0805	0603	0402
A	2.00 ± 0.05	1.50 ± 0.05	1.08 ± 0.05	0.66 ± 0.03
B	3.57 ± 0.05	2.30 ± 0.05	1.85 ± 0.05	1.15 ± 0.03
W	8.00 ± 0.02	8.00 ± 0.05	8.00 ± 0.05	8.00 ± 0.05
D	1.55 ± 0.05	1.50 ± 0.10	1.50 ± 0.10	1.50 ± 0.10
E	1.75 ± 0.10	1.75 ± 0.05	1.75 ± 0.05	1.75 ± 0.05
F	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05
P	4.00 ± 0.10	4.00 ± 0.05	4.00 ± 0.05	4.00 ± 0.05
Po	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05	2.00 ± 0.05
4P	16.00 ± 0.05	16.00 ± 0.05	16.00 ± 0.05	16.00 ± 0.05

♦ REEL DIMENSIONS



Unit: mm

Item	A	B	C	D
Dimension	178.0 ±1.0	60.0 ±1.0	9.0 ±0.1	13.0 ±0.1

♦ ORDERING INFORMATION

SMD ① 03 ② 152 ③ J ④ 4100 ⑤ H ⑥

1. Series SINLOON SMD Thermistor. (TH - Lead (Pb) ; TF - Lead Free)

2. Dimension : 06 (1206) , 05 (0805) , 03 (0603) , 02 (0402)

3. Resistance : 152 = 15 x 10^2 = 1,500 ohm

4. R Tolerance : F:±1% ; G:±2% ; H:±3% ; J:±5% ; K:±10%

5. B value :

1: 1000	C: 101~150	I: 401~450	O: 701~750
2: 2000	D: 151~200	J: 451~500	P: 751~800
3: 3000	E: 201~250	K: 501~550	Q: 801~850
4: 4000	F: 251~300	L: 551~600	R: 851~900
A: 0~50	G: 301~350	M: 601~650	S: 901~950
B: 51~100	H: 351~400	N: 651~700	T: 951~999

6. B Tolerance : F:±1% ; G:±2% ; H:±3%

ACCESSORY : RESISTANCE-TEMPERATURE CHARACTERISTICS