

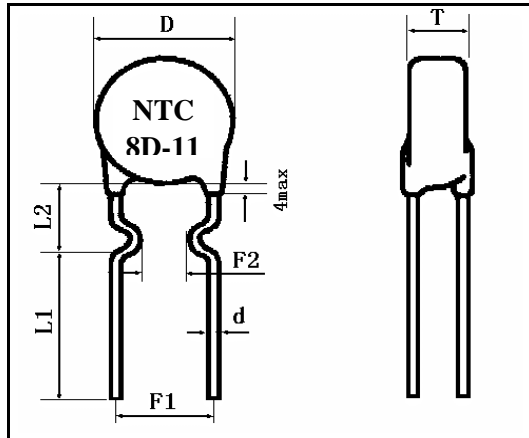
Technical Data

8R0M-SCL-03A11K7.5

Power NTC Thermistor Specifications

1 Part Number 8R0M-SCL-03A11K7.5

2 Mechanical Dimensions



D	T	d	F1	F2	L1	L2
11.0 ± 1.0	5.0 ± 0.5	0.8 ± 0.2	7.5 ± 0.5	5.0 ± 1.5	17 Min	5.0 ± 2

(mm)

3 Electric Characteristic

Resistance at 25°C	8 Ω ± 20%
Resistance at 50% of max. current @25°C	0.59 Ω ± 15%
Resistance at 100% of max. current @65°C	0.26 Ω ± 15%
Max Steady State Current up to 65°C	3A
Max recommended energy rating (Joules)	25 J
Actual Failure Point of Instantaneous Energy (Joules)	50 J
Body Temperature at 100% current rating	182 °C
Dissipation Constant	≥17.2 mW / °C
Thermal Time Constant	≤39 Seconds

4 Soldering

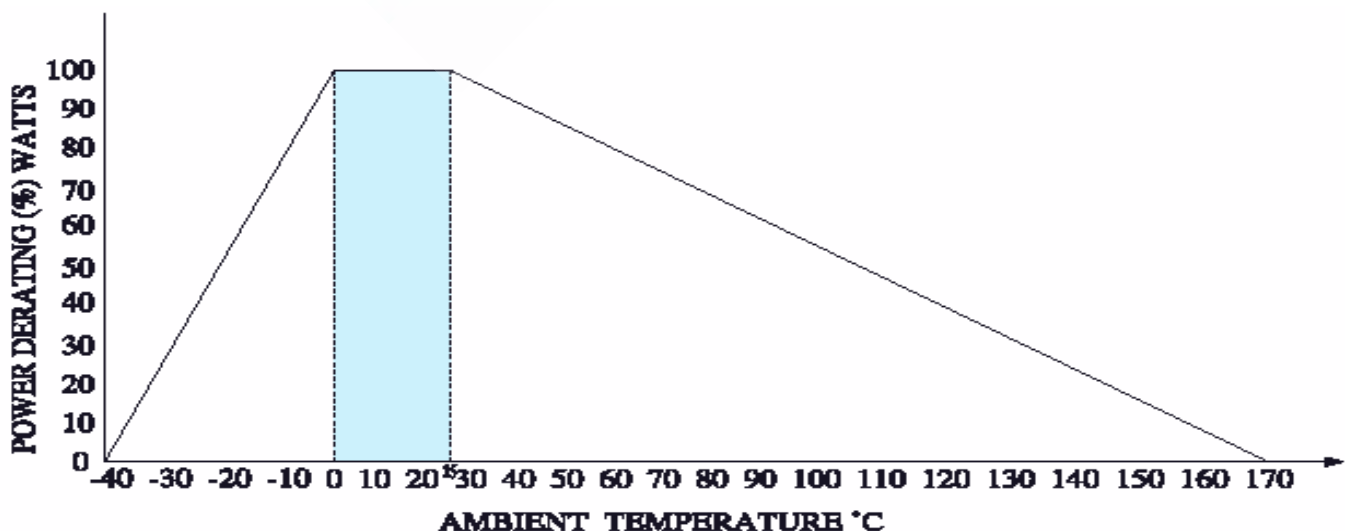
a) Solderability

Terminals shall be immersed into solder bath up to 2.5mm from the body at 255°C ± 5°C for 5 ± 0.5 seconds. More than 90% of its terminals shall be covered with solder.

b) Resistance to soldering heat

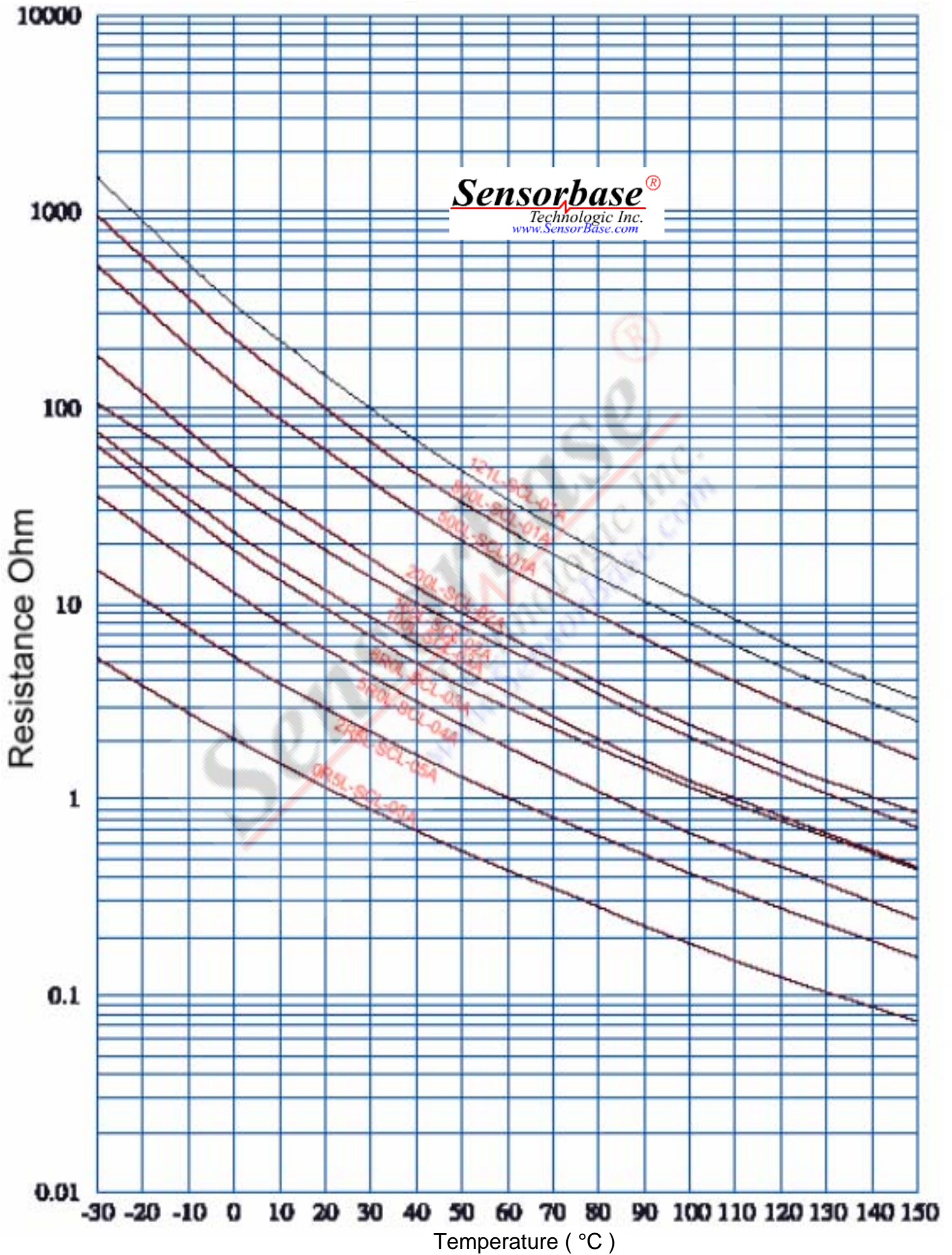
After lead wires are immersed into solder bath up to 2.5mm from the body at 350°C ± 5°C for 3.5 ± 0.5 seconds, the change ratio of R25 shall be within ± 2% of the initial value.

5 Power Derating Curve



6 R / T Curve

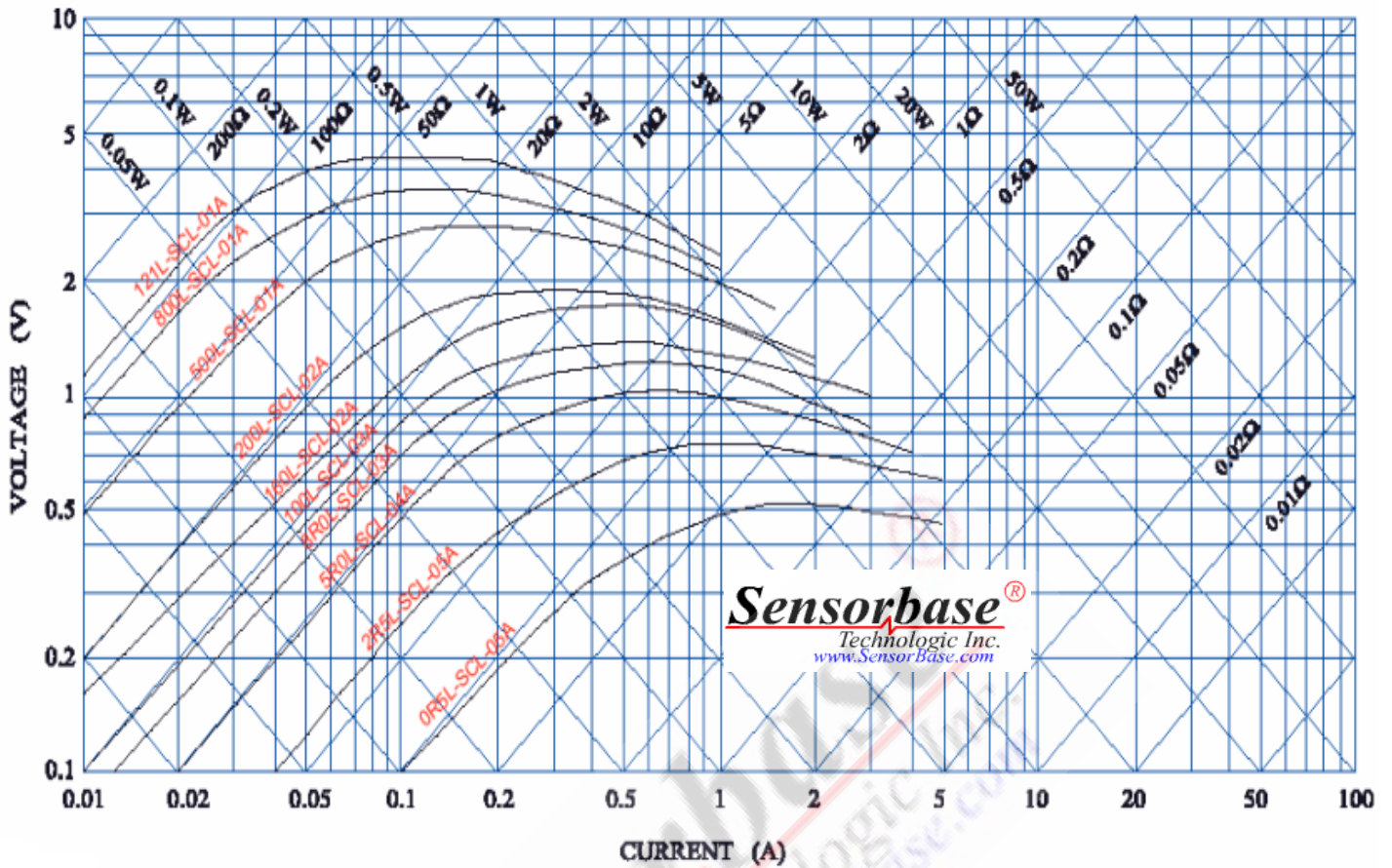
R / T Curve



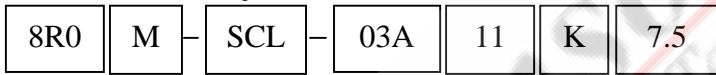
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7 Voltage vs Current Characteristic Curve



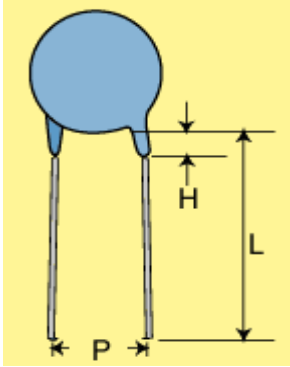
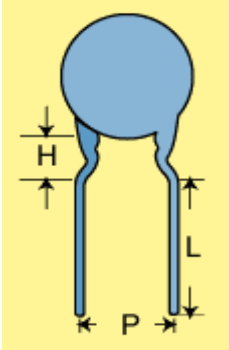
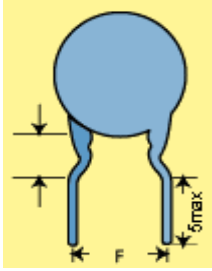
8 Part Number System

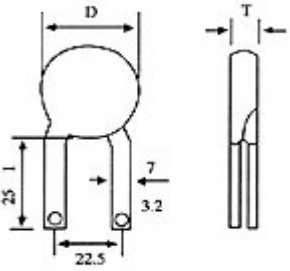
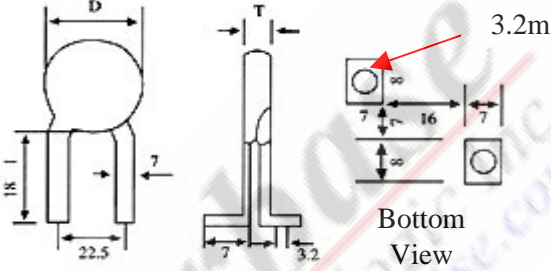


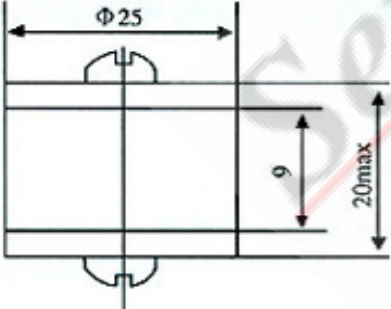
- Lead Spacing Code (For S, K & U Style Only)
- Lead Shape Style (Please see article 9)
- Disk Diameter Code
- Max. Steady State Current Code
- SCL Series Code
- Resistance Tolerance Code (at 25°C)
- Resistance Code (at 25°C)

* All coding please see Coding page

9 Shape Style

S Style	K Style	U Style
		
Straight Leads	Inward Long Lead	Inward Short Lead

V Style	W Style
	
Straight Screw Leads	Angle Screw Leads

X Style

Axial Screw