



Shanghai Keter Polymer Material Co., Ltd

Specification of PPTC Thermistor nSMD 1206

Electrical Characteristics

Model	Marking	V _{max} (V)	I _{max} (A)	I _{hold} @25°C (A)	I _{trip} @25°C (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
							Current (A)	Time (Sec)	R _{lmin} (Ω)	R _{ltp} (Ω)	R _{lmax} (Ω)
nSMD010	α N	60.0	100	0.10	0.25	0.4	0.5	1.00	1.600	6.000	15.000
nSMD025	α A	16.0	100	0.25	0.50	0.6	8.0	0.08	0.350	0.480	2.500
nSMD035	α B	6.0	100	0.35	0.75	0.6	8.0	0.10	0.250	0.380	1.300
nSMD050	α F	6.0	100	0.50	1.00	0.6	8.0	0.10	0.150	0.300	0.700
nSMD075	α G	6.0	100	0.75	1.50	0.6	8.0	0.20	0.090	0.160	0.500
nSMD100	α H	6.0	100	1.00	1.80	0.6	8.0	0.30	0.055	0.100	0.270
nSMD150	α I	6.0	100	1.50	3.00	0.8	8.0	1.00	0.040	0.070	0.130

I_{hold} - Hold Current. Maximum current device will sustain for 30min without tripping in 25°C still air.

I_{trip} - Trip Current. Minimum current at which the device will trip in 25°C still air.

V_{max} - Maximum voltage device can withstand without damage at rated current.

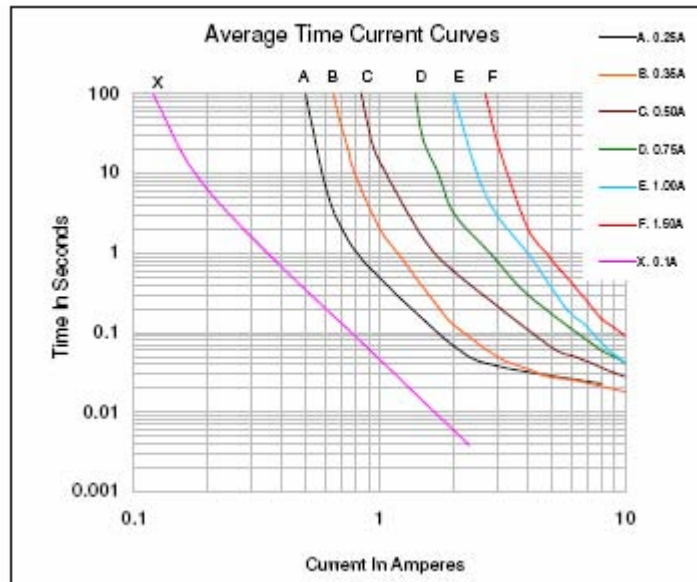
I_{max} - Maximum fault current device can withstand without damage at rated voltage.

P_{dtyp} - Power dissipated from device when in the tripped state at 25°C still air.

R_{ltp} - Typical resistance of device in initial (un-soldered) state.

R_{lmax} - Maximum resistance of device at 25°C measured one hour post reflow.

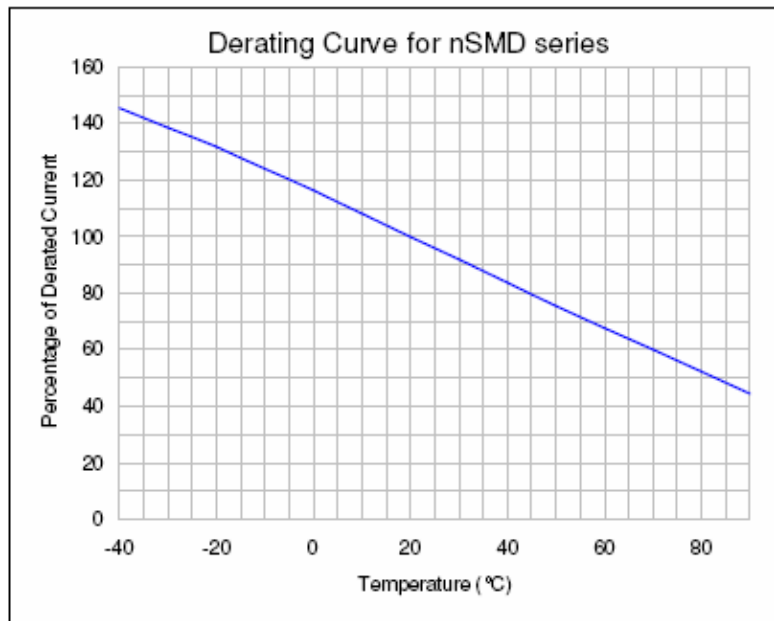
Average Time Current Curves



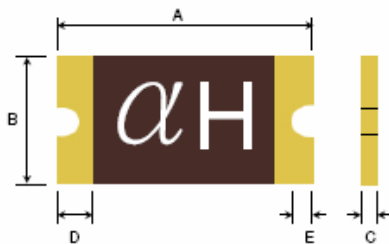


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Thermal Derating Curves



Physical Description for Dimensions:



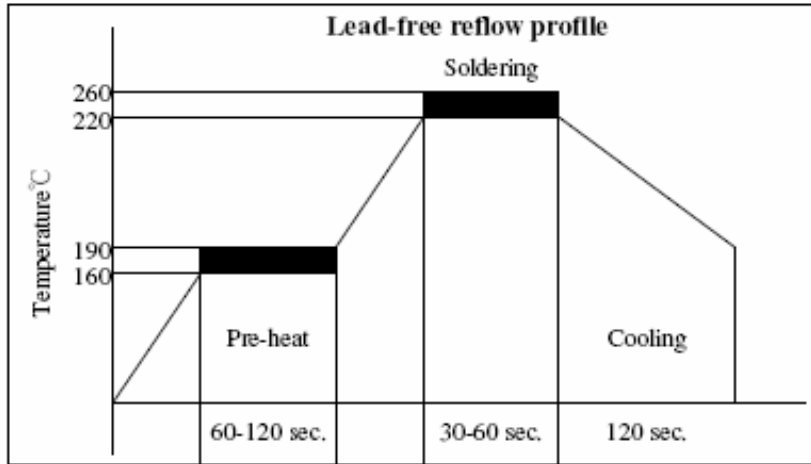
(Unit: mm)

Model	Marking	A		B		C		D	E
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
nSMD010	α N	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD025	α A	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD035	α B	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD050	α F	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD075	α G	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD100	α H	3.00	3.50	1.50	1.80	0.50	1.25	0.15	0.10
nSMD150	α I	3.00	3.50	1.50	1.80	0.75	1.80	0.15	0.10



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Sol der Refl ow Condi ti on



Plati ng

Lead Free versions are RoHS compliant

Terminal Pad Materials: Tin-Plated Nickle-Copper or Gold-Plated Nickle-Copper

Operati ng Condi ti ons

Operating Temperature: -40 to 85

Device Surface Temperature: 125 maximum

Packi ng Speci fi cati ons

Quant i ty

nSMD010, 100, 150: 3500pcs/reel

nSMD025, 035, 050, 075: 1500pcs/reel