



## Shanghai Keter Polymer Material Co., Ltd

### Specification of PPTC Thermistor SMD 1210

#### Electrical Characteristics

Model	Marking	$V_{max}$ (Vdc)	$I_{max}$ (A)	$I_{hold}$ @25°C (A)	$I_{trip}$ @25°C (A)	$P_d$ Max. (W)	Maximum Time To Trip		Resistance	
							Current (A)	Time (Sec)	$R_{i_{min}}$ (Ω)	$R_{i_{max}}$ (Ω)
SMD1210-005	$\alpha A$	30.0	100	0.05	0.15	0.6	0.3	1.50	2.800	50.000
SMD1210-010	$\alpha B$	30.0	100	0.10	0.30	0.6	0.5	0.60	0.800	15.000
SMD1210-020	$\alpha C$	30.0	100	0.20	0.40	0.6	8.0	0.02	0.400	5.000
SMD1210-035	$\alpha D$	6.0	100	0.35	0.75	0.6	8.0	0.20	0.200	1.300
SMD1210-050	$\alpha F$	13.2	100	0.50	1.00	0.6	8.0	0.10	0.180	0.900
SMD1210-075	$\alpha G$	6.0	100	0.75	1.50	0.6	8.0	0.10	0.070	0.400
SMD1210-110	$\alpha H$	6.0	100	1.10	2.20	0.6	8.0	0.30	0.050	0.210
SMD1210-150	$\alpha L$	6.0	100	1.50	3.00	0.6	8.0	0.50	0.030	0.110

$I_{hold}$  = Hold Current. Maximum current device will not trip in 25°C still air.

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

$V_{max}$  = Maximum operating voltage device can withstand without damage at rated current ( $I_{max}$ ).

$I_{max}$  = Maximum fault current device can withstand without damage at rated voltage ( $V_{max}$ ).

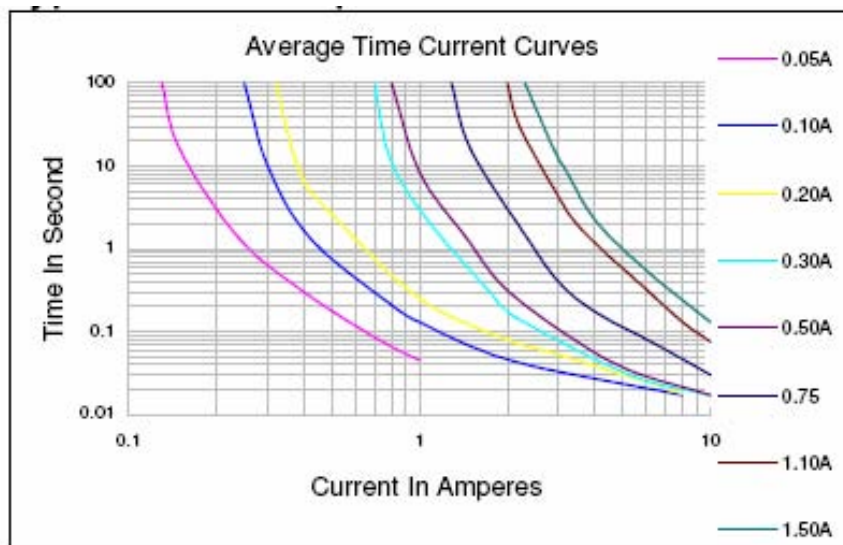
$P_d$  = Maximum power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

$R_{i_{min}/max}$  = Minimum/Maximum device resistance prior to tripping at 25°C.

$R_{i_{max}}$  = Maximum device resistance is measured one hour post reflow.

**CAUTION** : Operation beyond the specified ratings may result in damage and possible arcing and flame.

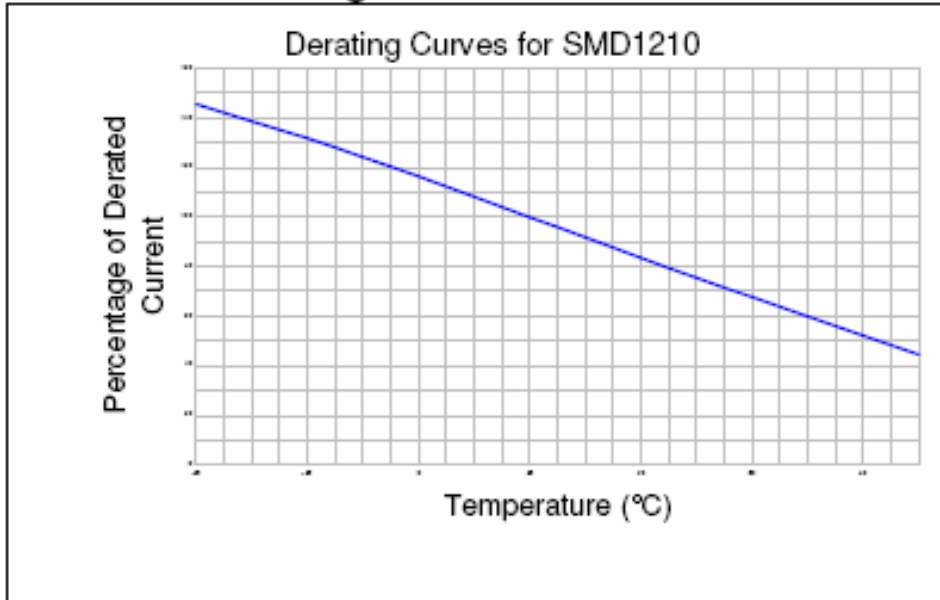
#### Average Time Current Curves



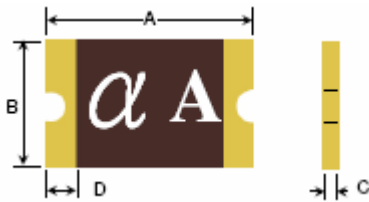


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**Thermal Derating Curves**



**Physical Description for Dimensions:**



(Unit: mm)

Model	A		B		C		D
	Min.	Max.	Min.	Max.	Min.	Max.	Min.
SMD1210-005	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-010	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-020	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-035	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-050	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-075	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-110	3.00	3.43	2.35	2.80	0.30	0.80	0.30
SMD1210-150	3.00	3.43	2.35	2.80	0.60	1.40	0.30



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**Plating**

Lead Free versions are RoHS compliant

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

**Operating Conditions**

Operating Temperature: -40 to 85

Device Surface Temperature: 125 maximum

**Packing Specifications**

**Quantity**

SMD005, 010, 020, 035,110: 4500pcs/reel

SMD050, 075: 4000pcs/reel

SMD150: 3500pcs/reel