

SMD1210-010

Performance Specification

Madal	Marking	V _{max}	I _{max}	I _{hold}	I _{trip}	Pd	Maximum Time To Trip		Resistance	
Model	Marking			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)
SMD1210-010	α Β	30	100	0.1	0.30	0.6	0.5	0.60	0.800	15.000
hold = Hold Current.	Maximum curre	nt device will n	ot trip in 25°C	still air.						
trip = Trip Current. M	inimum current	t at which the d	evice will alwa	ays trip in 25°C	still air.					
/max = Maximum oper	ating voltage d	levice can with	stand without	damage at rate	d current (Imax).				
max = Maximum faul	t current device	e can withstand	without dama	ige at rated voli	tage (Vmax).					
Pd = Power dissipati	on when device	e is in the trippe	ed state in 25°	C still air enviro	onment at rated	voltage.				
Rimin/max = Minimum	Maximum devi	ice resistance p	prior to tripping	g at 25°C.						
R1 _{max} = Maximum dev	ice resistance i	is measured on	e hour post re	flow.						
CAUTION : Operation b	eyond the spec	cified ratings m	ay result in da	mage and pose	sible arcing and	l flame.				

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
Resistance to solvent	MIL-STD-202, Method 215	No change
Vibration	MIL-STD-202, Method 201	No change
Ambient operating conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the trippe	ed state is 125 °C	

AGENCY APPROVALS :



Regulation/Standard:



EN14582

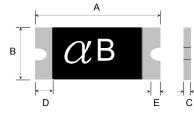
Ihold Versus Temperature

Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})									
Woder	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
SMD1210-010	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03	

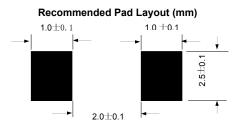
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Construction And Dimension (Unit:mm)									
Model	Α		В		С		D	E	
woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
SMD1210-010	3.00	3.43	2.35	2.80	0.30	0.80	0.30	0.10	

Dimensions & Marking







Termination Pad Characteristics

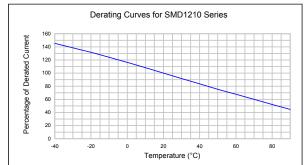
Terminal pad materials : Terminal pad solderability :

Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

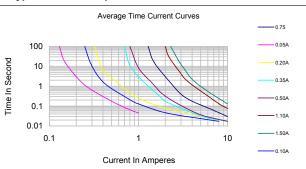
Rework

Use standard industry practices, the removal device must be replaced with a fresh one.

Thermal Derating Curve



Typical Time-To-Trip At 25°C



WARNING:

· Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame. • PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.

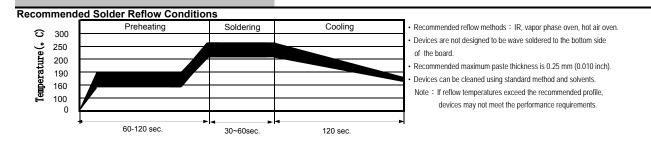
• Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components. • Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.

Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space

· Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC SMD can be cleaned by standard methods.

· Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability performance of our devices.

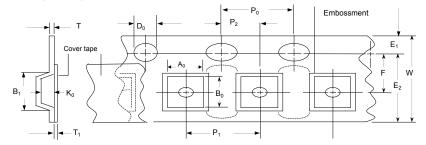
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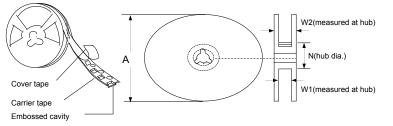
Tape And Reel Specifications (mm)

EIA Tape Component Dimensions

Governing Specifications	EIA 481-2
W	8.0 ± 0.20
P0	4.0 ± 0.10
P1	4.0 ± 0.10
P2	2.0 ± 0.10
A0	2.82 ± 0.10
В0	3.52± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0.0
F	7.5 ± 0.05
E1	1.75 ± 0.10
E2min.	6.25
Tmax.	0.6
T1max.	0.1
КО	0.90 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	50
W1	8.4 + 1.5, -0.0
W2max.	22.4



EIA Reel Dimensions



Storage And Handling

- Storage conditions : 40°C max, 70% R.H.
- · Devices may not meet specified performance
- if storage conditions are exceeded.

Order Information

Order Information	Packaging				
SMD1210	010	Tape & Reel Quantity			
Product name	Hold				
Size 3225 mm / 1210 inch	Current	4,500 pcs/reel			
SMD : surface mount device	0.10A				