

APPROVAL SHEET

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CUSTOMER:

CUSTOMER'S APPROVAL:

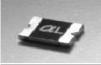
AUTHORIZED SIGNATURE/STAMP:

DATE

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DATE:	2-Mar-22

SEA & LAND ELECTRONIC CORP.



SMD1210-025-60V

Features

- Surface Mount Devices
- Lead free device
- Size 3.2*2.5mm/0.12*0.10 inch
- Surface Mount packaging for automated assembly

Computer mother board, Modem.
 Telecommunication equipments.

Almost anywhere there is a low voltage

power supply, up to 30V and a load to be

Applications

protected, including:

Alpha-Top (Sea&Land Alliance)

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Medel Medice		V _{max} I _{max}	I _{max}	I _{hold}	I _{trip}	Maxi P _d Time T		mum 'o Trip	Resi	Resistance		Agency Approval	
Model	Marking			@25°C	@25°C	Max.	Current	Time	Ri _{min}	R1max	UL	TUV	
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	UL	100	
SMD1210-025-60V	α C	60	100	0.25	0.50	0.6	8.0	0.02	0.400	4.500			
hold = Hold Current.	Maximum cu	rrent device	will not trip	in 25°C still	air.								
trip = Trip Current. M	/inimum curr	ent at which	the device	will always tr	ip in 25°C st	ill air.							
max = Maximum ope	erating voltage	e device car	n withstand	without dama	age at rated	current (Ima	ax).						
max = Maximum fau	It current dev	vice can with	stand witho	ut damage a	t rated voltag	ge (Vmax).							
d = Power dissipat	ion when dev	vice is in the	tripped sta	te in 25°C sti	Il air environi	ment at rate	ed voltage.						
Rimin/max = Minimun	n/Maximum d	evice resista	ance prior to	o tripping at 2	25°C.		Ū						
timax = Maximum dev	vice resistanc	e is measur	ed one hou	r post reflow.									
CAUTION : Operation				•		le arcing a	nd 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 trip	ped state is 125 °C	

AGENCY APPROVALS :

Regulation/Standard:

Pb RoHS 2015/863/EU HF EN14582

Ihold Versus Temperature

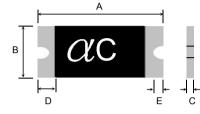
Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
SMD1210-025-60V	0.34	0.31	0.28	0.25	0.21	0.19	0.17	0.15	0.12	

SMD1210-025-60V

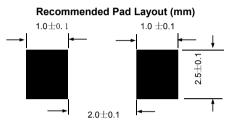
Alpha-Top (Sea&Land Alliance)

Construction And Dir	Construction And Dimension (Unit:mm)									
Model A			В		С		D	E		
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.		
SMD1210-025-60V	3.00	3.43	2.35	2.80	0.50	1.20	0.30	0.10		

Dimensions & Marking





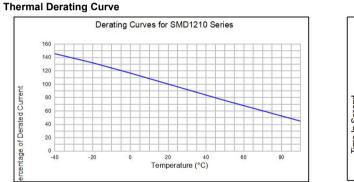


Termination Pad Characteristics

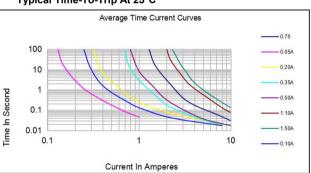
Terminal pad materials : Terminal pad solderability : Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Rework

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



Typical Time-To-Trip At 25°C





· Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

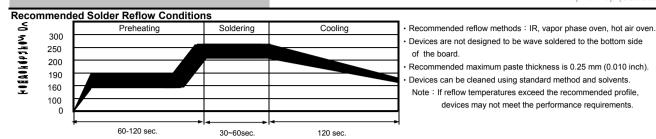
PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
 Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended 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.

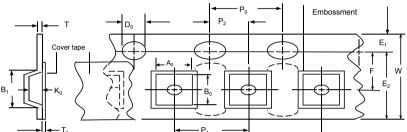
SMD1210-025-60V



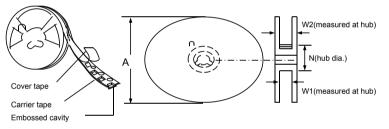
Tape And Reel Specifications (mm)

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	2.90± 0.20
B0	3.65± 0.20
B1max.	4.35
D0	1.5± 0.10
F	3.5 ± 0.10
E1	1.75 ± 0.10
E2min.	6
Tmax.	0.3
T1max.	0.06
КО	1.00 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	180
N min.	50
W1	9.00 ±2.00
W2max.	15



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	F	Packaging
SMD1210	025-60V	Tape & Reel Quantity
Product name	Hold	
Size 3225 mm / 1210 inch	Current	4,500 pcs/reel
SMD : surface mount device	0.25A	

Tape & reel packaging per EIA481-1

Labeling Information

