

# APPROVAL SHEET

MODEL NO.: SMD1210-075-24V

CUSTOMER:

CUSTOMER'S APPROVAL:

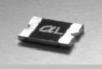
AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by: Approved by: DATE: Chung Cheng YC Lin 11-Apr-13

SEA & LAND ELECTRONIC CORP.



# SMD1210-075-24V

#### 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.

Applications

protected, including:

Telecommunication equipments.

Almost anywhere there is a low voltage

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

Alpha-Top (Sea&Land Alliance)

#### Performance Specification

Model	Marking	V <sub>max</sub>	I <sub>max</sub>	I <sub>hold</sub>	I <sub>trip</sub>	P <sub>d</sub>	Maxi Time 1	mum ſo Trip	Resis	tance	
Woder	Marking			@25°C	@25°C	Тур.	Current	Time	Ri <sub>min</sub>	R1 <sub>max</sub>	
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	
SMD1210-075-24V	$\alpha  \mathbf{G}$	24.0	100	0.75	1.50	0.6	8.0	0.10	0.070	0.400	
Ihold = Hold Current.	Maximum curre	nt device will n	ot trip in 25°C	still air.							
Itrip = Trip Current. N	linimum current	at which the d	evice will alway	ys trip in 25°C	still air.						
Vmax = Maximum ope	Vmax = Maximum operating voltage device can withstand without damage at rated current (Imax).										
Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).											
Pd = Power dissipat	Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.										
Rimin/max = Minimun	Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.										
R1 <sub>max</sub> = Maximum der	R1 <sub>max</sub> = Maximum device resistance is measured one hour post reflow.										
CAUTION : Operation	CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and 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 tripped state is 125 °C					

#### AGENCY APPROVALS :

Regulation/Standard:



2002/95/EC EN14582

UL pending

## Ihold Versus Temperature

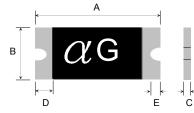
Model			Maximum an	nbient operatin	g temperature	(T <sub>mao</sub> ) vs. hold	current (I <sub>hold</sub> )		
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD1210-075-24V	1.00	0.97	0.86	0.75	0.64	0.59	0.54	0.48	0.40

# SMD1210-075-24V

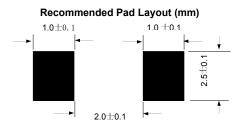
Alpha-Top (Sea&Land Alliance)

Construction And D	imension (Unit:n	nm)						
Model		A		В		C	D	E
Moder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD1210-075-24V	3.00	3.43	2.35	2.80	0.30	0.80	0.30	0.10

#### **Dimensions & Marking**







#### **Termination Pad Characteristics**

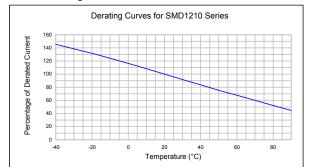
Terminal pad materials : Terminal pad solderability :

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

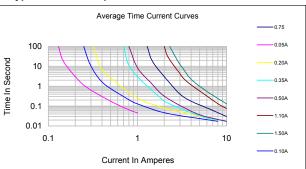
#### Rework

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.

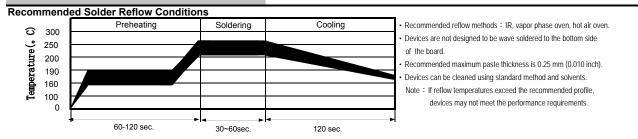
• Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components. • Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of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

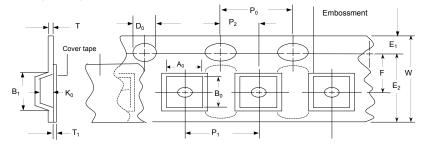
# SMD1210-075-24V



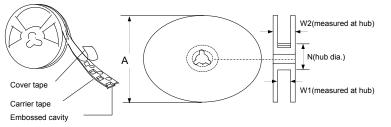
### Tape And Reel Specifications (mm)

#### **EIA Tape Component Dimensions**

	FIA 404 0
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
B0	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
К0	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

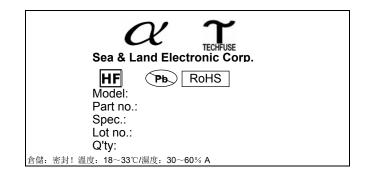
- Storage conditions : 40°C max, 70% R.H.
- · Devices may not meet specified performance
- if storage conditions are exceeded.

### Order Information

Order Information			Packaging
SMD1210	075	-24V	Tape & Reel Quantity
Product name	Hold	Max	
Size 3225 mm / 1210 inch	Current	Voltage	4,000 pcs/reel
SMD : surface mount device	0.75A		

Tape & reel packaging per EIA481-1

#### Labeling Information



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 RF2873 

 000
 RF3060-000
 TR600-150Q-B-0.5-0.130
 RXE090
 5E4795/04-1502
 TRF250-080T-B-1.0-0.125
 SMD100-2
 NIS5452MT1TXG

 NIS5431MT1TXG
 SMD250-2
 0ZCM0001FF2G
 0ZCM0003FF2G
 0ZCM0004FF2G
 BK60-017-DZ-E0.6
 F95456-000
 LVR100S
 RS30-090

 RS30-600
 RS30-700
 RS30-800
 RS30-900
 RS60RB-005
 RS60RB-010
 RS60RB-025
 RS60RB-050
 RS60RB-075
 RS60RB 

 160
 SMD1206-300C-12V
 SB250-145
 SB250-030
 SB250-040
 SB250-200
 SB250-600
 SMD0805-005-24V
 SMD0805-050-16V
 SMD1210 

 005-60V
 SMD0805-005
 R60-375
 SMD0805K110SF6V
 SMD0805-005-24V
 SMD0805-050-16V
 SMD1210