

SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

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APPROVAL SHEET

MODEL NO.:	SMD400L-24V		
CUSTOMER:			
CUSTOMER'S APPR	ROVAL:		
AUTHORIZED SIGNA	ATURE/STAMP:		
DATE			

SMD400L-24V

MANUFACTURER:

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Submitted by: Chung Cheng Approved by: YC Lin DATE: 20-Aug-21

SEA & LAND ELECTRONIC CORP.











■ Surface Mount Devices

■ Size 7.5*5.5 mm 0.29*0.20 inch

■ Surface Mount packaging for automated assembly

Applications Almost anywhere there is a low voltage

power supply, up to 60V and a load to be

protected, including:

■ Computer mother board, Modern, ■ Telecommunication equipments.

Alpha-Top (Sea & Land Alliance)

SMD400L-24V

Performance Specification

Madal	V_{max}	I _{max}	I _{hold} @25°C	I _{trip}	P _d	Maximum Time To Trip		Resistance		Agency Approval	
Model				@25°C	Тур.	Current	Time	Ri_{min}	R1 _{max}	UL	TUV
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	OL	100
SMD400L-24V	/ 24	100	4.00	8.00	1.6	15.0	15.0	0.008	0.040		

Ihold = Hold Current. Maximum current device will not trip in 25°C still air.

Itrip = Trip Current. Minimum current at which the device will always trip in 25°C still air.

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).

= Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.

R1max = Maximum device resistance is measured one hour post reflow.

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 trippe	d state is 125 °C						

Agency Approvals :

UL pending

Regulation/Standard:

RoHS

2015/863/EU

EN14582

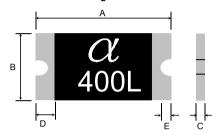
I. .. Versus Temperature

noid Teledie Tell	porataro												
Model		Maximum ambient operating temperature (T _{mao) vs. hold current (lhold)}											
Model	-4	40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C			
SMD400L-24	1V 6	6.05	5.30	4.65	4.00	3.35	3.04	2.66	2.40	1.79			

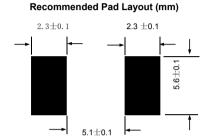
Construction And Dimension (Unit:mm)

Madel		Α		В		С	
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.
SMD400L-24V	6.73	7.98	4.80	5.44	0.60	1.30	0.30

Dimensions & Marking



 α = Trademark 300 = Hold current



Termination Pad Characteristics

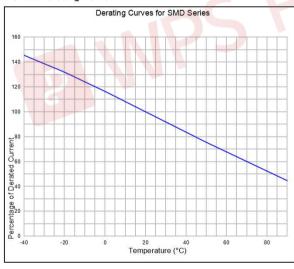
Tin-plated Nickel-Copper Terminal pad materials :

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

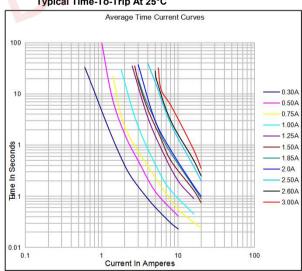
Rework

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

Thermal Derating Curve



Typical Time-To-Trip At 25°C



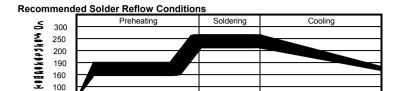
🔼 WARNING:

- 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.



- Recommended reflow methods : IR, vapor phase oven, hot air oven.
- · Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents.

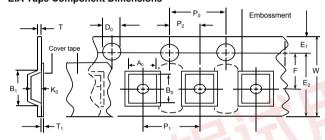
Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P_0	4.0 ± 0.10
P ₁ P ₂ A ₀	8.0 ± 0.10
P ₂	2.0 ± 0.05
<u>A</u> ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B₁max.	12.1
<u>D</u> ₀	1.5 + 0.1, -0
F	7.5 ± 0.05
E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T₁max.	0.1
K ₀	0.80 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W ₁	16.4 + 2.0, -0.0
W₂max.	22.4

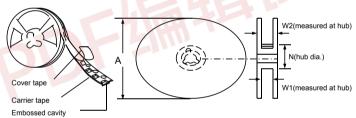
60-120 sec.

EIA Tape Component Dimensions



EIA Reel Dimensions

120 sec.



- Storage And Handling

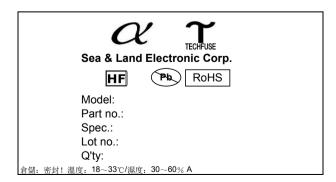
 Storage conditions: 40°C max, 70% R.H.
- Devices may not meet specified performance if storage conditions are exceeded.

Order Information Packaging ape & Reel Quantity

Product name Hold Size 7555 mm /2920 inch Current 2,000 pcs/reel SMD : surface mount device 4.00A

Tape & reel packaging per EIA481-1

Labeling Information



单击下面可查看定价,库存,交付和生命周期等信息

>>SEA-LAND(台湾陆海)