

SEA & LAND ELECTRONIC CORP. WWW.SEALAND-PPTC.COM

ALPHA-TOP TECHNOLOGY CORP.

APPROVAL SHEET

MODEL NO.:	SMD200L-24V
CUSTOMER:	
CUSTOMER'S APPR	OVAL:
AUTHORIZED SIGN/	ATURE/STAMP:

DATE

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Submitted by: Approved by: DATE:	Chung Cheng YC Lin 15-Sep-21		
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SEA & LAND ELECTRONIC CORP.



Features Surface Mount Devices Lead free device 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, Modem. Telecommunication equipments.

Alpha-Top (Sea & Land Alliance)

SMD200L-24V

Performance Specification												
Model	V _{max}	V _{max} I _{max} I _{hold} I		I _{trip}	I _{trip} P _d		Maximum Time To Trip		Resistance		Agency Approval	
Woder		(a)	@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	τυν	
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)			
SMD200L-24V	24	100	2.00	4.00	1.5	8.0	4.5	0.020	0.120			
Ihold = Hold Current.	Maximum cu	rrent device w	ill not trip in 2	5°C still air.								
Itrip = Trip Current. N	linimum curre	ent at which th	ne device will a	always 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	ion when dev	rice is in the tr	ipped state in	25°C still air o	environment	at rated voltag	e.					
Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.												
R1max = Maximum d	R1max = Maximum device resistance is measured one hour post reflow.											
CAUTION : Operation I	peyond the sp	pecified rating	s may result i	n damage and	d possible ar	cing 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:



2015/863/EU

EN14582

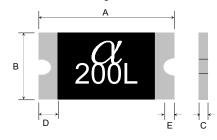
	Ihold Versus Temperate	ure								
Model			N	/laximum amb	pient operating	g temperature	e (T _{mao}) vs. ho	ld current (I _{hol}	d)	
	wouer	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
	SMD200L-24V	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90

SMD200L-24V

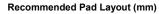
Construction And Dimension (Unit:mm)

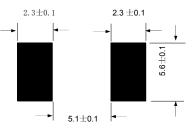
Madal	Model A B		3	С		D	E	
WOUGH	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD200L-24V	6.73	7.98	4.80	5.44	0.60	1.30	0.30	0.30

Dimensions & Marking



 α = Trademark 200 = Hold current





Termination Pad Characteristics Terminal pad materials :

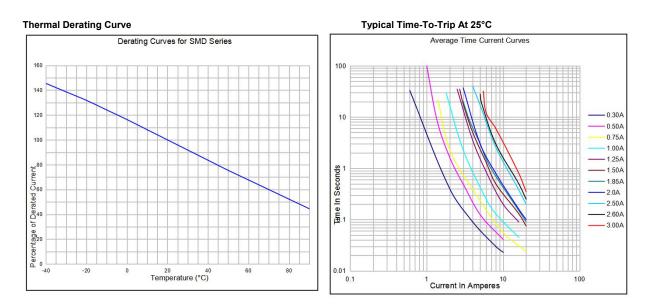
Terminal pad solderability :

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.



ᡗ warning:

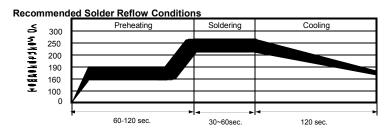
Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

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.

Contaminator 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.

SMD200L-24V

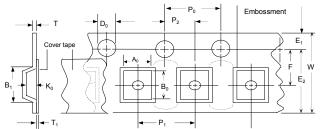


- Recommended reflow methods : IR, vapor phase oven, hot air oven. Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents. Note : If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

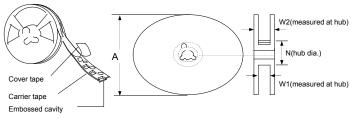
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₀ P ₁ P ₂ A ₀	2.0 ± 0.05
A ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B ₁ max.	12.1
D ₀	1.5 + 0.1, -0
F	7.5 ± 0.05
D ₀ F E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T ₁ max.	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
W ₂ max.	22.4

EIA Tape Component Dimensions



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	Packaging			
SMD	200L-24V	Tape & Reel Quantity		
Product name	Hold			
Size 7555 mm /2920 inch	Current	1.500 pcs/reel		
SMD : surface mount device	2.00A			

Tape & reel packaging per EIA481-1

Labeling Information

Sea & Land E	TECHFUSE lectronic Corp.
HF	Pb RoHS
Model:	
Part no.:	
Spec.:	
Lot no.:	
Q'ty:	
食儲: 密封! 溫度: 18~33℃/濕度: 3	80∼60% A