

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

ALPHA-TOP TECHNOLOGY CORP.

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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 8-Aug-12	
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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)

Performance Specific	ation											
Model	V _{max}	I _{max}	hold	I _{trip}	\mathbf{P}_{d}		mum To Trip	Resistance		Agency A	Agency Approval	
Model	(Vdc)	(A)	@25°C (A)	@25°C (A)	Тур. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1 _{max} (Ω)	UL	TUV	
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 v	vill not trip in 2	25°C still air.		-				•		
Itrip = Trip Current. N	Itrip = Trip Current. Minimum current at which the device will 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	tion when dev	vice is in the t	ripped state ir	n 25°C still air	environmen	t at rated volta	ge.					
Rimin/max = Minimun	Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.											
R1max = Maximum d	evice resistar	nce is measur	ed one hour p	oost reflow.								
CAUTION : Operation	beyond the s	pecified rating	is may result i	n damage an	d possible a	rcing and flam	e.					

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 stat	e is 125 °C	

Agency Approvals :

Regulation/Standard:



UL pending

2002/95/EC EN14582

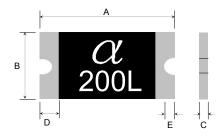
Ihold Versus Temperature

110										
	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
	SMD200L-24V	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90

SMD200L-24V

С	onstruction And Di	mension (Unit:	nm)					
	A		A	В			С	
	WIOGEI	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	SMD200L-24V	6.73	7.98	4.80	5.44	0.60	1.30	0.30

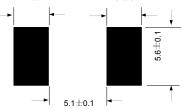
Dimensions & Marking



 α = Trademark 200 = Hold current



Recommended Pad Layout (mm)



Termination Pad Characteristics Terminal pad materials :

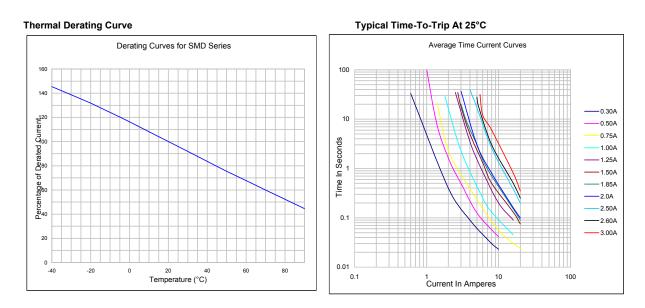
Terminal pad solderability :

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.



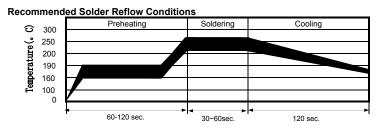
WARNING:

· 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 olis 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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SMD200L-24V



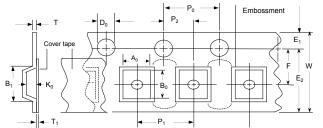
Recommended reflow methods : IR, vapor phase oven, hot air oven.

- · 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.

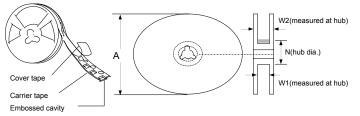
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂	2.0 ± 0.05
A ₀ B ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B ₁ max.	12.1
D ₀ F	1.5 + 0.1, -0
F	7.5 ± 0.05
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	Tape & Reel Quantity	
Product name	Hold		
Size 7555 mm /2920 inch	Current	1500 pcs/reel	
SMD : surface mount device	2.00A		
Tape & reel packaging per EIA481-1			

Labeling Information

Sea & Land Electronic Corp.
HF PB RoHS
Model:
Part no.:
Spec.:
Lot no.:
Q'ty:
倉儲: 密封! 温度: 18~33℃/濕度: 30~60% A

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 RF2531-000
 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
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 RS30-800
 RS30-900
 RS60RB-005
 RS60RB-010
 RS60RB-025
 RS60RB-050
 RS60RB-075

 RS60RB-160
 RS60SB-250
 ASMD0603-010-30V
 ASMD0603-025-16V
 ASMD2920-260-24V
 BSMD0603-025-12V
 BSMD1206-150-12V

 BSMD0805-020-33V
 BSMD1206-075-13.2V
 BSMD2920-400-6V
 BSMD2920-300-6V
 BSMD2920-700-6V