

SEA & LAND ELECTRONIC CORP.

www.sealand-pptc.com

ALPHA-TOP TECHNOLOGY CORP.

www.alpha-top.cn

APPROVAL SHEET

MODEL NO.:	SL1206200-16V	
CUSTOMER:		
CUSTOMER'S APP	ROVAL:	
AUTHORIZED SIGN	NATURE/STAMP:	
DATE		

MANUFACTURER:

HEAD OFFICE:

13F.,No.120-10,Sec.3,Zhongshan Rd.,Zhonghe Dist.,New Taipei City 23544,Taiwan

Tel: 886-2-8221-2567 Fax:882-2-2225-7268

 $\hbox{E-mail:service@chipfast.com.tw}\\$

China Branch:

Factory Building B)Shuangpeng,Weibu Village, Qiuchang Town, Huiyang District, Huizhou City, Guangdong Province, P.R.C.)

Tel: 86-752-3562001 Fax:86-752-3558696 E-mail:service@atpptc.com

Submitted by: Chen
Approved by: YC Lin
DATE: 1-Mar-23

SEA & LAND ELECTRONIC CORP.



SL1206200-16V

Features

- Surface Mount Devices
- I ead free device
- Size 2.0*1.2 mm / 0.08*0.05 inch
- Surface Mount packaging for automated assembly

Applications

Almost anywhere there is a low voltage power supply, up to 15V and a load to be protected, including:

- Computer mother board, Modem. USB hub
- PDAs & Charger, Analog & digital line card
- Digital cameras, Disk drivers, CD-ROMs,

Alpha-Top (Sea & Land Alliance)

Performance Specification

Madal	Marking	V _{max} (Vdc)	I _{max} (A)	I _{hold} @25°C (A)	I _{trip} @25°C (A)	P_d	Maximum Time To Trip		Resistance		Agency Approval	
Model						Typ. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1max (Ω)	UL	TUV
SL1206200-16V		16	50	2.00	4.00	1.2	8.0	5.0	0.0040	0.0280	✓	

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).

Pd = 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.

R1_{max} = 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

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Test	Conditions						
Passive aging	+85°C, 1000 hrs.						
Humidity aging	+85°C, 85% R.H., 168 hours						
Thermal shock	+85°C to -40°C, 20 times						
Resistance to solvent	MIL-STD-202,Method 215						
Vibration	MIL-STD-202,Method 201						
Ambient operating conditions : - 40 °C to +85 °C							
Maximum surface temperature of the device in the tripped state is 125 °C							
In case of special use, please contact our engineer							

Agency Approvals :



E201504(Alpha-Top)/E319079(Sea&Land)

Regulation/Standard:



2015/863/EU

HF

EN14582

I_{hold} Versus Temperature

liolu I I										
Model	Maximum ambient operating temperature (T _{mao}) vs. hold current (Ihold)									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
SL1206200-16V	2.70	2.30	2.20	2.00	1.60	1.50	1.40	1.10	0.97	



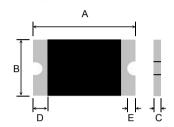
SL1206200-16V

Alpha-Top (Sea & Land Alliance)

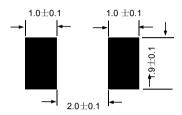
Construction And Dimension (Unit:mm)

Model	Α		В		С		D	E
Wodei	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SL1206200-16V	~	3.5	~	1.9	~	0.80	0.3	0.1

Dimensions & Marking



Recommended Pad Layout (mm)



Termination Pad Characteristics

Terminal pad materials: Tin-plated Nickel-Copper

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

Rework

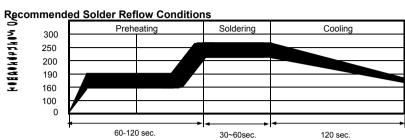
Use standard industry practices, the removal device must be replaced with a fresh one.



- · 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
- · Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability



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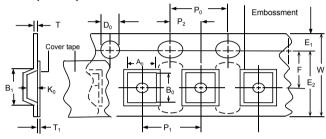


- Recommended reflow methods: IR, vapor phase oven, hot air oven.
- Devices are not designed to be wave soldered to the bottom side of the board
- Recommended maximum paste thickness is 0.25 mm (0.010 inch).
- Devices can be cleaned using standard method and solvents.
- Note: If reflow temperatures exceed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

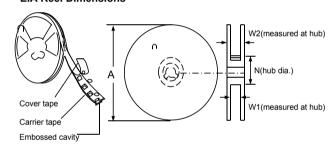
Tape And Reel Specifications (mm)

Tapo / and Troot opcomeducine (min)	
Governing Specifications	EIA 481-1
W	8.15 ± 0.3
P0	4.0 ± 0.10
P1	4.0 ± 0.10
P2	2.0 ± 0.05
A0	1.95 ± 0.10
B0	3.45 ± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0
F	3.5 ± 0.05
E1	1.75 ± 0.10
E2min.	6.25
Tmax.	0.6
T1max.	0.1
К0	1.04 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W1	9 ± 0.5
W2	12.6 ± 0.5

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

SL1206	'200 -16V		Tape & Reel Quantity
Product name	Hold	Max	SL0805075~SL0805300 : 4,000 pcs/reel
Size 3216 mm / 1206 inch	Current	Voltage	SL0805350~SL0805800 : 3,000 pcs/reel
SL: surface mount device	2.00A		

Tape & reel packaging per EIA481-1

Labeling Information

