

ALPHA-TOP TECHNOLOGY CORP.

APPROVAL SHEET

MODEL NO.:	nSMD100-24V	
CUSTOMER:		
CUSTOMER'S APPRC	VAL:	
AUTHORIZED SIGNA	TURE/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 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: Approved by: DATE:	Chen YC Lin 17-Sep-21

SEA & LAND ELECTRONIC CORP.

Downloaded From Oneyac.com

ak at ah af az

Features Surface Mount Devices Lead free device

Size 3.2*1.6 mm/0.12*0.06 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. USB hub PDAs & Charger, Analog & digital line card

Digital cameras, Disk drivers, CD-ROMs,

Alpha-Top (Sea&Land Alliance)

1

nSMD100-24V

Performance Specification												
Medel	Maximum Resistance V _{max} I _{max} I _{hold} I _{trip} P _d Time To Trip								stance	Agency Approval		
Model	Marking			@25°C	@25°C	Max.	Current	Time	Ri _{min}	R1max	UL	TUV
0110 100 0 10 /		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
nSMD100-24V	αH	24.0	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270		
Ihold = Hold Current.	Maximum cu	urrent device	e will not trip	in 25°C still a	air.							
Itrip = Trip Current.	Minimum curr	ent at which	the device	will always tri	p in 25°C stil	l air.						
Vmax = Maximum op	erating voltag	e device ca	n withstand v	vithout dama	ge at rated c	urrent (Ima	x).					
Imax = Maximum fau	ult current dev	vice can with	nstand without	ut damage at	t rated voltag	e (Vmax).						
Pd = Power dissipa	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 s	pecified rati	ngs may res	ult in damage	e and possibl	e arcing ar	id 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 $^\circ$ C								
In case of special use, please contact of	In case of special use, please contact our engineer							

Agency Approvals :

Regulation/Standard:



2015/863/EU

EN14582

Ihold Versus Temperature

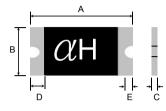
Model		Max	timum ambie	ent operating	temperature	e (T _{mao}) vs. h	old current (I _{hold})	
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
nSMD100-24V	1.450	1.310	1.150	1.000	0.840	0.770	0.690	0.610	0.480

nSMD100-24V

Alpha-Top (Sea&Land Alliance)

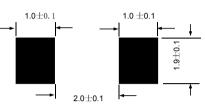
Construction And Dimension (Unit:mm)									
Model		A B		3	(;	D	E	
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
nSMD100-24V	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10	

Dimensions & Marking



 α = Trademark H = Part identification

Recommended Pad Layout (mm)



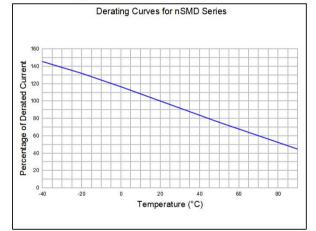
Termination Pad Characteristics

Terminal pad materials : Terminal pad solderability : Rework

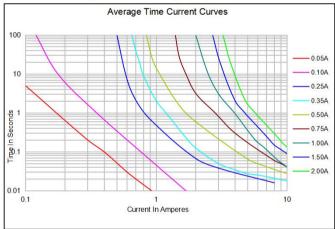
Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

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:

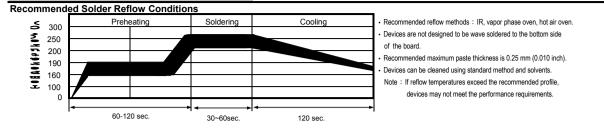
Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

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 voltes at maintee in themself with inconsistent with recommended ecclosing, inclinate a proceedings for eccelosing components. Use PPTC with a large inductance in circuit voltes (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.

nSMD100-24V

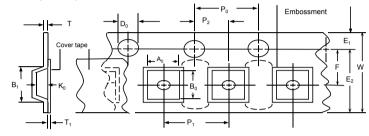
Alpha-Top (Sea&Land Alliance)



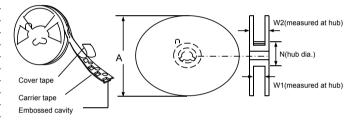
Tape And Reel Specifications (mm)

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
<u>B0</u>	3.45 ± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0
<u>F</u>	3.5 ± 0.05
_ <u>E1</u>	1.75 ± 0.10
E2min.	6.25
Tmax.	0.6
T1max.	0.1
<u>K0</u>	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	Pa	ackaging
nSMD	100-24V	Tape & Reel Quantity
Product name	Hold	
Size 3216 mm / 1206 inch	Current	3500 pcs/reel
SMD : surface mount device	1.00A	

Tape & reel packaging per EIA481-1

Labeling Information

Sea & Land E		
	HF (Pb) Rol	HS
Model:		
Part no.:		
Spec.:		
Lot no.:		
Q'ty:		
含儲, 率封! 溫度, 18~33℃/濕度, 3)~60% A	

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)