

APPROVAL SHEET

MODEL NO.:	nSMD075-24V	

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

MANUFACTURER: HEAD OFFICE:	
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:	Chung Cheng
Approved by:	YC Lin

SEA & LAND ELECTRONIC CORP.

15-Sep-21

Approved by: DATE:

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nSMD075-24V

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,

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Alpha-Top (Sea&Land Alliance)

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Performance Specific	ation											
Model	Marking	V _{max}	I _{max}	I _{hold}	I _{trip}	\mathbf{P}_{d}	Maxir Time T		Resistance		Agency	Approval
Wodel	Marking			@25°C	@25°C	Max.	Current	Time	Ri _{min}	R1max	UL	TUV
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	01	101
nSMD075-24V	αG	24.0	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500		
Ihold = Hold Current.	Maximum cu	urrent device	will not trip	in 25°C still a	uir.							
Itrip = Trip Current. N	/inimum curr	ent at which	the device v	vill always tri	p in 25°C stil	l air.						
Vmax = Maximum ope	rating voltag	e device car	withstand w	vithout dama	ge at rated c	urrent (Ima	ıx).					
Imax = Maximum fau	It current dev	vice can with	stand withou	ut damage at	rated voltag	e (Vmax).						
Pd = Power dissipat	ion when de	vice is in the	tripped state	e in 25°C stil	l air environn	nent at rate	d voltage.					
Rimin/max = Minimun	n/Maximum d	device resista	ance prior to	tripping at 2	5°C.							
R1 _{max} = Maximum dev	R1 _{max} = Maximum device resistance is measured one hour post reflow.											
CAUTION : Operation	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 de	evice in the tripped state is 125 °C	

Agency Approvals :

Regulation/Standard:



2015/863/EU

EN14582

Ihold Versus Temperature

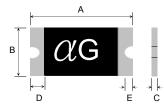
Model	Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})								
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
nSMD075-24V	1.140	1.010	0.880	0.750	0.650	0.590	0.540	0.490	0.410

nSMD075-24V

Alpha-Top (Sea&Land Alliance)

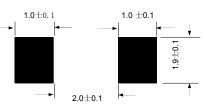
Construction And Dir	mension (Unit:m	າm)						
Model		Α		В		С		E
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
nSMD075-24V	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10

Dimensions & Marking



 α = Trademark G = Part identification

Recommended Pad Layout (mm)



Termination Pad Characteristics

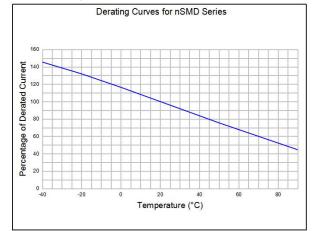
Terminal pad materials : Terminal pad solderability :

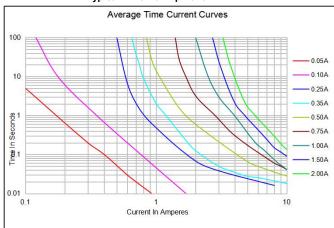
Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Rework

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

Thermal Derating Curve





WARNING:

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

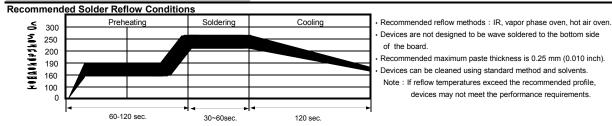
- PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated. Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.

Device performance can be impacted negatively in devices are nanuacia in a manner inconsistent with recommended electronic, inermai, 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.

Typical Time-To-Trip At 25°C

nSMD075-24V

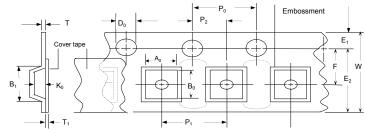
Alpha-Top (Sea&Land Alliance)



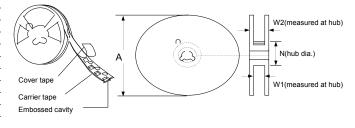
Tape And Reel Specifications (mm)

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
<u>A0</u>	1.95 ± 0.10
<u>B0</u>	3.45 ± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0
F	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
 Packaging

 nSMD
 075-24V
 Tape & Reel Quantity

 Product name
 Hold
 3,500 pcs/reel

 Size 3216 mm / 1206 inch
 Current
 3,500 pcs/reel

 SMD : surface mount device
 0.75A
 3,500 pcs/reel

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! 溫度: 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
 BK60-017-DZ-E0.6
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 RS30-600
 RS30-700
 RS30-800
 RS30-900
 RS60RB-005
 RS60RB-010
 RS60RB-025
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 RS60RB

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 SMD1206-300C-12V
 SB250-145
 SB250-030
 SB250-040
 SB250-200
 SB250-600
 SMD0805-005-24V
 SMD0805-050-16V
 SMD1210

 005-60V
 SMD0805-005
 R60-375
 SMD0805K110SF6V
 SMD0805-005-24V
 SMD0805-050-16V
 SMD1210