

# APPROVAL SHEET

MODEL NO.:	nSMD075-16V	

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by:ChenApproved by:YC LinDATE:22-Feb-22

SEA & LAND ELECTRONIC CORP.

# ak al 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

Digital cameras, Disk drivers, CD-ROMs,

Almost anywhere there is a low voltage power supply, up to 60V and a load to be ch protected, including: Computer mother board, Modem. USB hub PDAs & Charger, Analog & digital line card

### nSMD075-16V

#### Alpha-Top (Sea&Land Alliance)

#### Performance Specification

Model	Marking	V <sub>max</sub>	max	I <sub>hold</sub>	I <sub>trip</sub>	$\mathbf{P}_{d}$	Maxiı Time T		Resi	istance	Agency	Approval
Model	warking	(Vdc)	(A)	@25°C (A)	@25°C (A)	Max. (W)	Current (A)	Time (Sec)	Ri <sub>min</sub> (Ω)	R1max (Ω)	UL	τυν
nSMD075-16V	αG	16	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	$\checkmark$	
Ihold = Hold Current.	Maximum cu	irrent device	will not trip	in 25°C still a	air.							
Itrip = Trip Current. N	1inimum curr	ent at which	the device v	will always tri	p in 25°C sti	ll 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 dissipat	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 <sub>max</sub> = Maximum device resistance is measured one hour post reflow.												
CAUTION : Operation I	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 dev	ice 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:



HF

2015/863/EU

EN14582

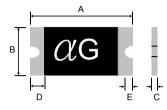
Ihold Versus Temperate	ure								
Model		Max	timum ambie	ent operating	temperature	e (T <sub>mao</sub> ) vs. h	old current (	hold)	
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
nSMD075-16V	1.140	1.010	0.880	0.750	0.650	0.590	0.540	0.490	0.410

## nSMD075-16V

Alpha-Top (Sea&Land Alliance)

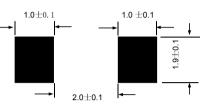
Construction And Dimension (Unit:mm)									
Model	Α		В		С		D	E	
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
nSMD075-16V	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10	

#### **Dimensions & Marking**



 $\alpha$  = Trademark G = Part identification

#### **Recommended Pad Layout (mm)**



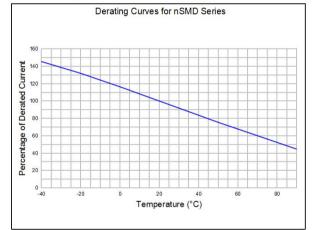
#### **Termination Pad Characteristics**

Terminal pad materials : Terminal pad solderability : Rework

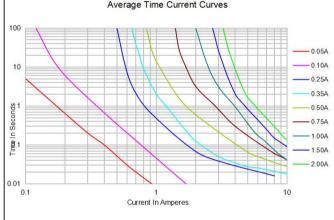
Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

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

#### Thermal Derating Curve



# Typical Time-To-Trip At 25°C Average Time Current Curves



# WARNING:

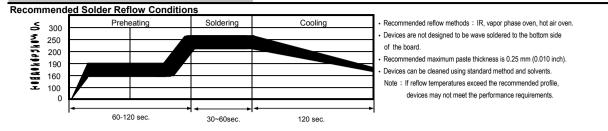
Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

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.

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 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.

## nSMD075-16V

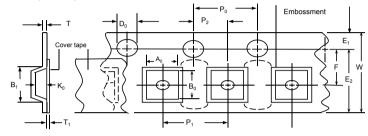
#### Alpha-Top (Sea&Land Alliance)



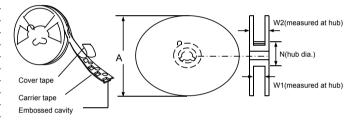
#### Tape And Reel Specifications (mm)

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
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
<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.

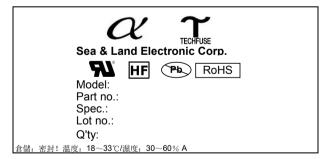
· Devices may not meet specified performance

if storage conditions are exceeded.

Order Information	Packaging			
nSMD	075-16V	Tape & Reel Quantity		
Product name	Hold			
Size 3216 mm / 1206 inch	Current	3500 pcs/reel		
SMD : surface mount device	0.75A			

Tape & reel packaging per EIA481-1

Labeling Information



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 RF3382-000
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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
 F95456-000
 LVR100S
 RS30-090

 RS30-600
 RS30-700
 RS30-800
 RS30-900
 RS60RB-005
 RS60RB-010
 RS60RB-025
 RS60RB-050
 RS60RB-075
 RS60RB 

 160
 SB250-145
 SB250-030
 SB250-200
 SB250-600
 SMD0805-005-24V
 SMD0805-050-16V
 SMD1210-005-60V
 SMD0805 

 005
 R60-375
 SMD0805K110SF6V
 SMD1206K012SF60V
 SMD1206K012SF60V
 SMD1206K012SF60V