

APPROVAL SHEET

MODEL NO.:	nSMD035-16V	

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/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:	
	31 Chang-Xin-Zon Road,Gao-Ling Industrial Zone,Chiu-chang Town
	Huey Yang Distric, Huey Zhou City, Guang Dong516221, CHINA
	Tel: 86-752-3562001
	Fax:86-752-3558696
	E-mail:service@atpptc.com

Submitted by:	Chung Cheng
Approved by:	YC Lin
DATE:	31-Mar-12

SEA & LAND ELECTRONIC CORP.



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)

Performance Specification

nSMD035-16V

Model	Marking	V _{max}	I _{max} I _{hold}	I _{hold}	I _{trip}	P _d	Maximum Time To Trip		Resistance		Agency Approval				
Model	Marking	(Vdc)	(A)	@25°C (A)	@25°C (A)	Max. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1max (Ω)	UL	τυν			
nSMD035-16V	αB	16.0	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300					
Ihold = Hold Current. Maximum current device will not trip in 25°C still air.															
Itrip = Trip Current. N	linimum curr	ent at which	the device v	vill always tri	p in 25°C sti	ll air.									
Vmax = Maximum ope	rating voltag	e device car	n withstand v	without dama	age at rated of	current (Ima	ıx).								
Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).															
Pd = Power dissipat	ion when de	vice is in the	tripped stat	e in 25°C stil	ll air environr	ment at rate	d 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 b	beyond the s	pecified ratir	ngs may res	ult in damage	e and possib	le arcing an	id flame.	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 d	evice in the tripped state is 125 °C	

Agency Approvals :

UL pending

Regulation/Standard:



2002/95/EC EN14582

Ihold Versus Temperature

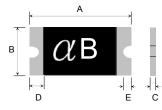
Madal	Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})								
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
nSMD035 -16V	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.21	0.15

nSMD035-16V

Alpha-Top (Sea&Land Alliance)

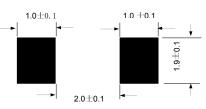
Construction And Dimension (Unit:mm)								
Model		4	В		С		D	E
Woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
nSMD035-16V	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10

Dimensions & Marking



 α = Trademark B = Part identification

Recommended Pad Layout (mm)



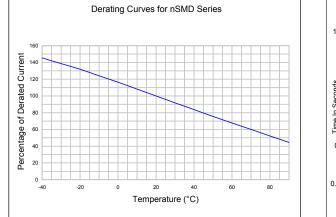
Termination Pad Characteristics

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

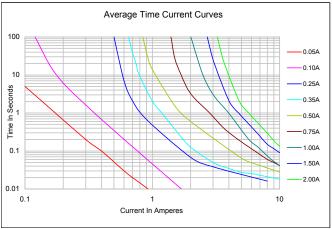
Rework

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

Thermal Derating Curve



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.

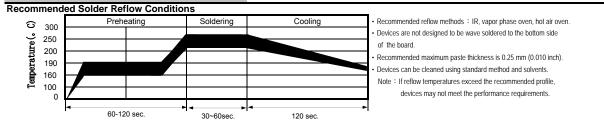
- DPTC are intended for protection against occasional over current or were magnetain possible conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
 Device performance can be impacted negatively if devices are handled in a manner inconsistent with 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 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.

nSMD035-16V

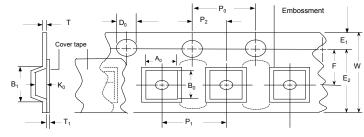
Alpha-Top (Sea&Land Alliance)



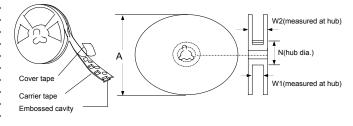
Tape And Reel Specifications (mm)

W P0 P1	$ \begin{array}{r} 8.15 \pm 0.3 \\ 4.0 \pm 0.10 \\ 4.0 \pm 0.10 \\ 2.0 \pm 0.05 \\ \end{array} $
	4.0 ± 0.10
P1	
	2.0 ± 0.05
P2	
<u>A0</u>	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.

Packaging **Order Information** nSMD Tape & Reel Quantity 035 -16V Product name Hold Max Size 3216 mm / 1206 inch Current Voltage 5,000 pcs/reel SMD : surface mount device 0.35A

Tape & reel packaging per EIA481-1

Labeling Information

Sea & Land Electron	CHFUSE ic Corp.
HF Pb F	RoHS
Model:	
Part no.:	
Spec.:	
Lot no.:	
Q'ty:	
官儲: 密封! 溫度: 18~33℃/濕度: 30~60% /	λ.

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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
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 RS30-110
 RS30-600
 RS30-700
 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