

APPROVAL SHEET

MODEL NO.: SMD0805-010-24V	
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CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by:	Chung Cheng	
Approved by:	YC Lin	
DATE:	10-Apr-13	

SEA & LAND ELECTRONIC CORP.



Features

- Surface Mount Devices
- Lead 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

Model	V _{max}	max	I _{max} I _{hold}	I _{hold} I _{trip} I		Maximum P _d Time To Trip			Resistance		Agency Approval	
Woder	Marking			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1max	UL	TUV
		(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
SMD0805-010-24V	1	24.0	100	0.10	0.30	0.5	0.5	1.50	1.000	6.000		
Ihold = Hold Current.	Ihold = Hold Current. Maximum current device will not trip in 25°C still air.											
Itrip = Trip Current. N	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).												
max = 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	Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.											
R1 _{max} = Maximum dev	ice resistanc	e is measure	ed one hour	post reflow.								
CAUTION : Operation b	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 device	in the tripped state is 125 °C	

Agency	Approvals	:
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UL pending

Regulation/Standard:

PoRoHS	2002/95/EC
HF	EN14582

Ihold Versus Temperature

Model		Max	imum ambie	ent operating	temperature	e (T _{mao}) vs. h	nold current	(I _{hold})	
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD0805-010-24V	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03

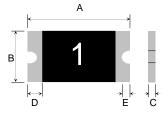
SMD0805-010-24V

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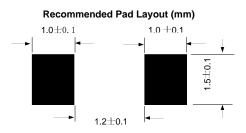
Construction And Dimension (Unit:mm)

Model		Α		ВС			C D		
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
SMD0805-010-24V	1.90	2.20	1.20	1.50	0.50	1.00	0.20	0.10	

Dimensions & Marking







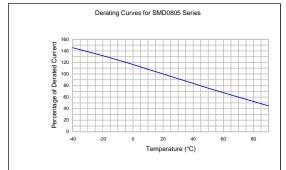
Termination Pad Characteristics

Terminal pad materials : Terminal pad solderability : Tin-plated Nickel-Copper

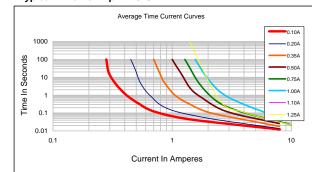
Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

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.

· 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.

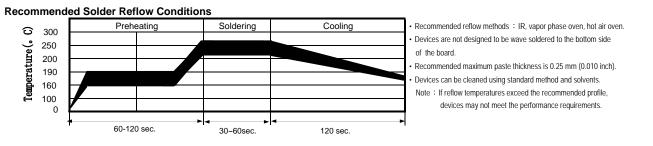
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components. - Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.

 Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
 Ontamination 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.

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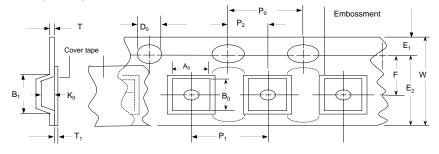
Alpha-Top (Sea & Land Alliance)



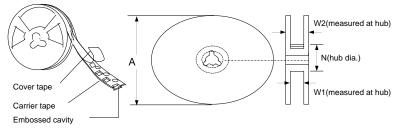
Tape And Reel Specifications (mm)

EIA Tape Component Dimensions

Governing Specifications	EIA 481-1
W	8.0 ± 0.3
P0	4.0 ± 0.10
P1	4.0 ± 0.10
P2	2.0 ± 0.05
A0	1.45 ± 0.10
B0	2.30 ± 0.10
B1max.	4.35
D0	1.55 + 0.1, -0
F	3.5 ± 0.05
E1	1.75 ± 0.10
E2min.	6.25
Т	0.25
T1max.	0.1
<u>K0</u>	0.74 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W1	9.0 ± 0.5
W2	12.0 ± 0.05



EIA Reel Dimensions

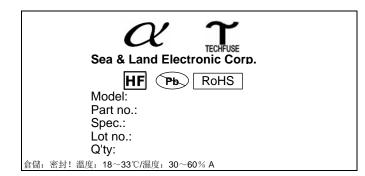


Storage And Handling

- Storage conditions : 40°C max, 70% R.H.
- Devices may not meet specified performance
- if storage conditions are exceeded.

Order Information			Packaging
SMD0805	'010	-24V	Tape & Reel Quantity
Product name	Hold	Max	
Size 2012 mm / 0805 inch	Current	Voltage	5,000 pcs/reel
SMD: surface mount device	0.10A		

Tape & reel packaging per EIA481-1 Labeling Information



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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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 RS30-110
 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