

APPROVAL SHEET

MODEL NO.:	SMD0805-005	
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CUSTOMER:

CUSTOMER'S APPROVAL:

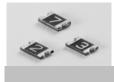
AUTHORIZED SIGNATURE/STAMP:

DATE

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

SEA & LAND ELECTRONIC CORP.



SMD0805-005

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

Madal	Ma alaba a	Montring Vmax	/ _{max} I _{max} I _{hold}	d I _{trip}		Maximum P _d Time To Trip		Resistance		Agency Approval		
Model	Marking	(Vdc)	(A)	@25°C (A)	@25°C (A)	Тур. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1max (Ω)	UL	TUV
SMD0805-005	V	15.0	100	0.05	0.20	0.5	0.5	1.50	2.000	10.000		
Ihold = Hold Current.	Ihold = Hold Current. Maximum current device will not trip in 25°C still air.											
Itrip = Trip Current. M	inimum curre	ent at which t	he device w	ill always trip	o in 25°C stil	l air.						
Vmax = Maximum oper	ating voltage	e device can	withstand w	ithout damag	ge at rated c	urrent (Imax	.).					
Imax = Maximum faul	Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).											
Pd = Power dissipati	on when dev	rice is in the t	tripped state	in 25°C still	air environm	nent at rated	voltage.					
Rimin/max = Minimum	Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.											
R1 _{max} = Maximum dev	R1 _{max} = Maximum device resistance is measured 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 :

UL pending

2002/95/EC

EN14582

Regulation/Standard:

PB ROHS HF

Ihold Versus Temperature

Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
WOUEI	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD0805-005	0.078	0.068	0.06	0.05	0.042	0.038	0.034	0.03	0.021

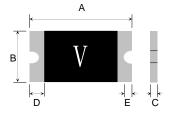
SMD0805-005

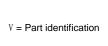
Alpha-Top (Sea & Land Alliance)

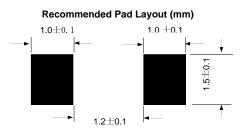
Construction And Dimension (Unit:mm)

Model		4		C C			D	Ξ
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD0805-005	2.00	2.20	1.20	1.50	0.50	1.00	0.20	0.10

Dimensions & Marking







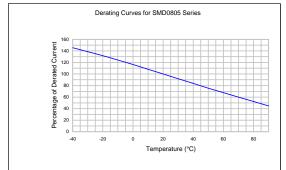
Termination Pad Characteristics

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

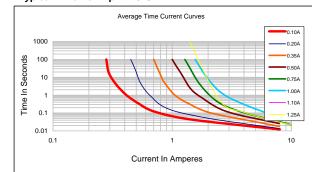
Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

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.

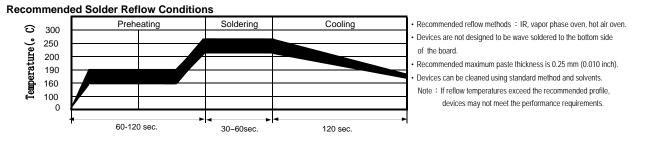
· PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.

- 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.

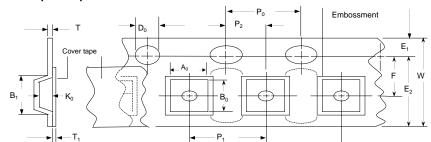
SMD0805-005



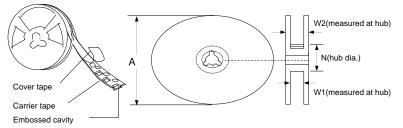
Tape And Reel Specifications (mm)

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



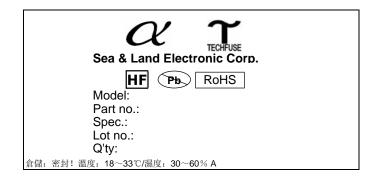
Storage And Handling

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

Order Information

Order Information			Packaging
	SMD0805	005	Tape & Reel Quantity
	Product name	Hold	
	Size 2012 mm / 0805 inch	Current	5,000 pcs/reel
	SMD: surface mount device	0.05A	

Tape & reel packaging per EIA481-1 Labeling Information



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 RF2171-000
 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
 SMD1206-300C-12V
 KRL1200050SBY
 SB250-145
 SB250-030
 SB250-200
 SB250-600
 SMD0805-005-24V
 SMD0805

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