

APPROVAL SHEET

MODEL NO.: SMD0805-005-33V

CUSTOMER:

CUSTOMER'S APPROVAL:

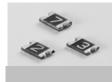
AUTHORIZED SIGNATURE/STAMP:

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:	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	Marking	V _{max}	max	I _{hold}	I _{trip}	P _d	Maxii Time T		Resistance		Agency Approval	
Woder	Marking	(Vdc)	(A)	@25°C (A)	@25°C (A)	Тур. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1max (Ω)	UL	τυν
SMD0805-005-33V	V	33.0	100	0.05	0.20	0.5	0.5	1.50	2.000	10.000		
Ihold = Hold Current. Itrip = Trip Current. N Vmax = Maximum ope Imax = Maximum fau Pd = Power dissipat Rimin/max = Minimum R1 _{max} = Maximum dev CAUTION : Operation I	Ainimum curre erating voltage It current devi- tion when devi- n/Maximum de vice resistance	nt at which the device can ce can withs ice is in the t evice resistance is measure	he device w withstand w tand withou ripped state nce prior to d one hour	vill always trip vithout damage t damage at a in 25°C still tripping at 25 post reflow.	o in 25°C still ge at rated cu rated voltage air environm o°C.	irrent (Ima: e (Vmax). ent at rated	ý voltage.					

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 tr	ipped state is 125 °C							

Agency Approvals :

UL pending

Regulation/Standard:

PhoHS	2015/8 / EU
HF	EN14582

Ihold Versus Temperature

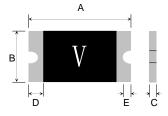
Model	Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})								
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD0805-005-33V	0.078	0.068	0.06	0.05	0.042	0.038	0.034	0.03	0.021

Alpha-Top (Sea & Land Alliance)

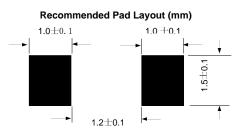
Construction And Dimension (Unit:mm)

Model		4		8	С		D) E	
Woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
SMD0805-005-33V	2.00	2.20	1.20	1.50	0.50	1.00	0.20	0.10	

Dimensions & Marking







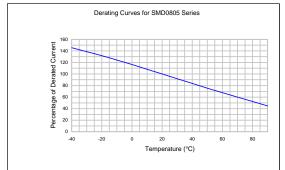
Termination Pad Characteristics

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

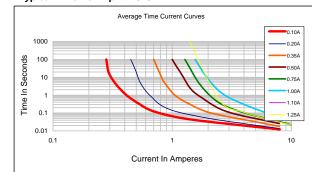
Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

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:

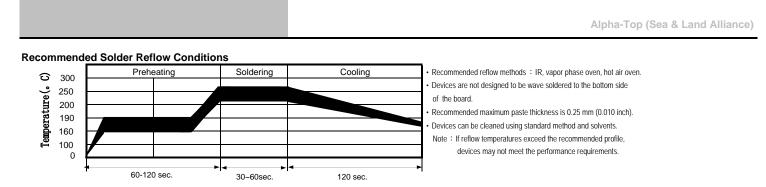
· Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

· 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.

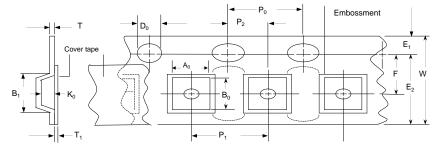
· Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profile could negatively impact solderability performance of our devices.



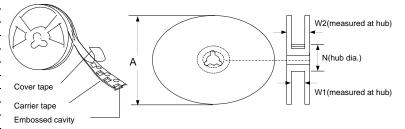
Tape And Reel Specifications (mm)

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
КО	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

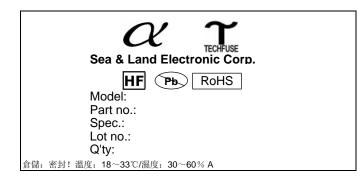


Storage And Handling

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

Order Information		Packaging					
SMD0805	'005	-33V	Tape & Reel Quantity				
Product name	Hold	Max					
Size 2012 mm / 0805 inch	Current	Voltage	5,000 pcs/reel				
SMD: surface mount device	0.05A						

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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 LVR100S
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 RS30-600
 RS30-700
 RS30-800
 RS30-900
 RS60RB-005
 RS60RB-010
 RS60RB-025
 RS60RB-050
 RS60RB-075
 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