

APPROVAL SHEET

MODEL NO.:	mSMD260-13.2V	

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

MANUFACTURER:	
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Submitted by:	Chen	
Approved by:	YC Lin	
DATE:	24-Feb-22	

SEA & LAND ELECTRONIC CORP.



mSMD260-13.2V

Performance Specific	ation										
Model	V _{max}	I _{max}	I _{hold}	I _{trip}	\mathbf{P}_{d}	Maxii Time T		Resis	stance	Agency	Approval
Woder			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	TUV
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
mSMD260-13.2V	13.2	100	2.60	5.00	0.8	8.0	2.50	0.015	0.050	\checkmark	\checkmark
Ihold = Hold Current.	Maximum cur	rrent device w	/ill not trip in 2	5°C still air.							
Itrip = Trip Current.	Minimum curre	ent at which th	ne device will	always trip in 2	25°C still air	-					
Vmax = Maximum ope	erating voltage	e device can v	withstand with	out damage a	t rated curre	ent (Imax).					
Imax = Maximum fau	ult current devi	ice can withst	and without d	amage at rate	d voltage (V	/max).					
Pd = Power dissipation	tion when dev	ice is in the tr	ipped state in	25°C still air e	environment	at rated voltag	e.				
Rimin/max = Minimun	n/Maximum de	evice resistan	ce prior to trip	ping at 25°C.							
R1 _{max} = Maximum de	vice resistance	e is measured	d one hour po	st reflow.							
CAUTION : Operation	beyond the sp	ecified rating	s may result i	n damage and	l possible ar	cing and flame					

Features

Surface Mount Devices

Size 4.5*3.2 mm/0.18*0.12 inch

Surface Mount packaging

for automated assembly

Lead free device

Applications

protected, including:

Almost anywhere there is a low voltage

power supply, up to 60V and a load to be

Computer mother board, Modem. USB hub

PDAs & Charger, Analog & digital line card

Digital cameras, Disk drivers, CD-ROMs,

Alpha-Top (Sea & Land Alliance)

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 devi	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)

Standardi

R 50481056 2015/863/EU

EN14582

PBRoHS

Regulation/Standard:

HF

RL° A

Ihold Versus T	emperature
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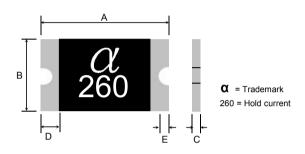
Model	el Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
mSMD260-13.2V	3.90	3.42	2.96	2.60	2.33	2.07	1.94	1.35	1.00

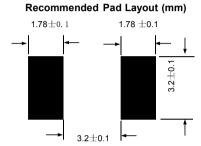
mSMD260-13.2V

Alpha-Top (Sea & Land Alliance)

Construction And Dimension (Unit:mm)								
Model		4		В	(D	E
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
mSMD260-13.2V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25

Dimensions & Marking





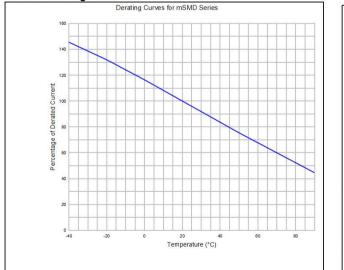
Termination Pad Characteristics

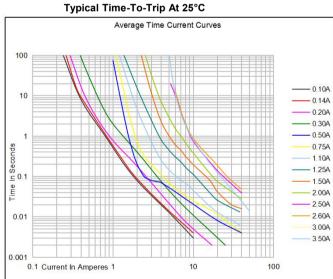
Terminal pad materials : Terminal pad solderability : Rework

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





A WARNING:

Use PYTC 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.

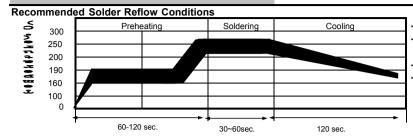
Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

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.

第3页

mSMD260-13.2V

Alpha-Top (Sea & Land Alliance)

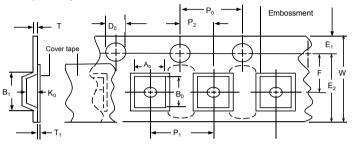


- Recommended reflow methods : IR, vapor phase oven, hot air oven.
 Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch). Devices can be cleaned using standard method and solvents.
- Note : If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

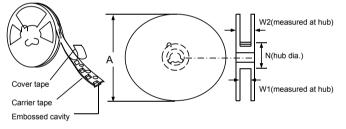
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-1
W	12 ± 0.3
P0	4.0 ± 0.10
P1	8.0 ± 0.10
P2	2.0 ± 0.05
A0	3.5 ± 0.23
B0	5.1 ± 0.15
B1max.	5.9
D0	1.5 + 0.1, -0
F	5.5 ± 0.05
E1	1.75 ± 0.10
E2min.	10.25
Tmax.	0.6
T1max.	0.1
<u>K0</u>	0.9 ± 0.15
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W1	12.4 + 2.0, -0.0
W2max.	18.4

EIA Tape Component Dimensions



EIA Reel Dimensions



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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				
mSMD	260-13.2V	Tape & Reel Quantity			
Product name	Hold				
Size 4532mm/1812 inch	Current	1,500 pcs/reel			
SMD : surface mount device	2.60A				

Tape & reel packaging per EIA481-1

Labeling Information

