

SEA & LAND ELECTRONIC CORP.

www.sealand-pptc.com

ALPHA-TOP TECHNOLOGY CORP.

www.alpha-top.cn

APPROVAL SHEET

MODEL N	NO.: SMD260L-33V
CUSTOM	MER:
CUSTOM	MER'S APPROVAL:
AUTHOR	RIZED SIGNATURE/STAMP:
DATE	

MANUFACTURER:

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Submitted by: Chen
Approved by: YC Lin
DATE: 22-Aug-25

SEA & LAND ELECTRONIC CORP.



SMD260L-33V

Features

■ Surface Mount Devices

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■ Size 7.5*5.5 mm 0.29*0.20 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.

Alpha-Top (Sea & Land Alliance)

Performance Specification

	V						mum	Resis	tance		
Model	v _{max}	max	hold	trip	Pd		To Trip			Agency I	Approval
			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	TUV
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	OL.	101
SMD260L-33V	33	100	2.60	5.20	1.5	8.0	10.0	0.014	0.075	√	

Ihold = Hold Current. Maximum current device will not trip in 25°C still air.

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).

Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax).

Pd = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

Rimin/max = Minimum/Maximum device resistance prior to tripping at 25°C.

R1max = Maximum device resistance is measured one hour post reflow.

CAUTION: Operation beyond the specified ratings may result in damage and possible arcing and flame.

Environmental Specifications

Test	Conditions				
Passive aging	+85°C, 1000 hrs.				
Humidity aging	+85°C, 85% R.H., 168 hours				
Thermal shock	+85°C to -40°C, 20 times				
Resistance to solvent	MIL-STD-202,Method 215				
Vibration	MIL-STD-202,Method 201				
Ambient operating conditions : - 40 °C to +85 °C					
Maximum surface temperature of the device in the tripped state is 125 °C					
In case of special use, please contact our engineer					

Agency Approvals :

#

E201504(Alpha-Top)/E319079(Sea&Land)

Regulation/Standard:

PN RoHS

2015/863/EU

HF

EN14582

I_{hold} Versus Temperature

	Model	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
	SMD260L-33V	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.13



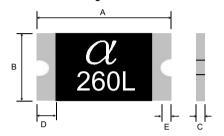
SMD260L-33V

Alpha-Top (Sea & Land Alliance)

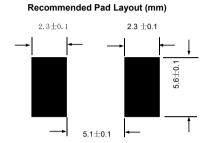
Construction And Dimension (Unit:mm)

Model		Α		В		С		E
Wodel	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD260L-33V	6.73	7.98	4.80	5.44	0.90	1.80	0.30	0.30

Dimensions & Marking



α = Trademark 260 = Hold current



Termination Pad Characteristics

Tin-plated Nickel-Copper

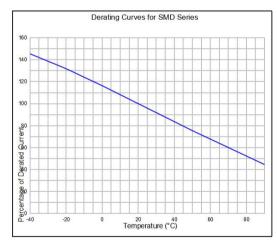
Terminal pad solderability:

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

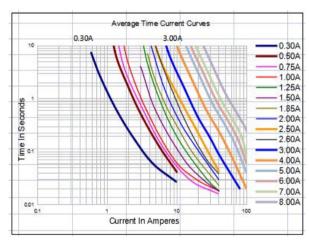
Rework

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.

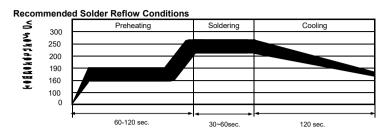
 Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

 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.



SMD260L-33V



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.

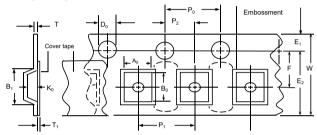
 $\cdot Recommended \ maximum \ paste \ thickness \ is \ 0.25 \ mm \ (0.010 \ inch).$ $\cdot Devices \ can \ be \ cleaned \ using \ standard \ method \ and \ solvents.$

Note: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

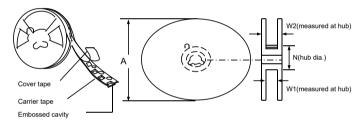
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂	2.0 ± 0.05
P ₂ A ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B₁max.	12.1
D ₀	1.5 + 0.1, -0
F	7.5 ± 0.05
E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T₁max.	0.1
K ₀	0.80 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W ₁	16.4 + 2.0, -0.0
W ₂ max.	22.4

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.

Order Information Packaging

SMD	260L-24V	Tape & Reel Quantity
Product name	Hold	
Size 7555 mm /2920 inch	Current	1.500 pcs/reel
SMD: surface mount device	2.60A	

Tape & reel packaging per EIA481-1

Labeling Information

