

SEA & LAND ELECTRONIC CORP. WWW.SEALAND-PPTC.COM

ALPHA-TOP TECHNOLOGY CORP.

WWW.ALPHA-TOP.COM

APPROVAL SHEET

MODEL NO .:	SMD075L-60V
CUSTOMER:	
CUSTOMER'S APPR	OVAL:
AUTHORIZED SIGNA	ATURE/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: Approved by: DATE:	Chung Cheng YC Lin 11-Apr-13	
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SEA & LAND ELECTRONIC CORP.



Features Surface Mount Devices Lead free device ■ 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. Telecommunication equipments.

Alpha-Top (Sea & Land Alliance)

Performance Specific	ation											
Model	V _{max}	I _{max}	I _{hold}	I _{trip}	\mathbf{P}_{d}		mum To Trip	Resi	Resistance		Agency Approval	
Model			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	TUV	
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)			
SMD075L-60V	60	100	0.75	1.50	1.5	8.0	0.3	0.100	1.000			
Ihold = Hold Current.	Maximum cu	rrent device v	/ill not trip in 2	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 d	evice resistar	nce is measur	ed one hour p	oost reflow.								
CAUTION : Operation	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 stat	te is 125 °C	

Agency Approvals :

Regulation/Standard:



UL pending

2002/95/EC EN14582

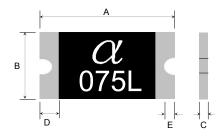
Ihold Versus Temperature

Ë	Madal		N	laximum amb	ient operating	g temperature	(T _{mao}) vs. ho	ld current (Iha	old)	
	Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
	SMD075L-60V	1.13	1.01	0.88	0.75	0.62	0.56	0.50	0.44	0.34

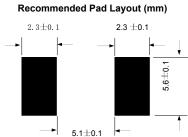
SMD075L-60V

::mm)					
Α		В		C	D
Max.	Min.	Max.	Min.	Max.	Min.
7.98	4.80	5.44	0.60	1.30	0.30
		Max. Min.		Max. Min. Max. Min.	Max. Min. Max. Min. Max.

Dimensions & Marking



 α = Trademark 075 = Hold current



Termination Pad Characteristics Terminal pad materials :

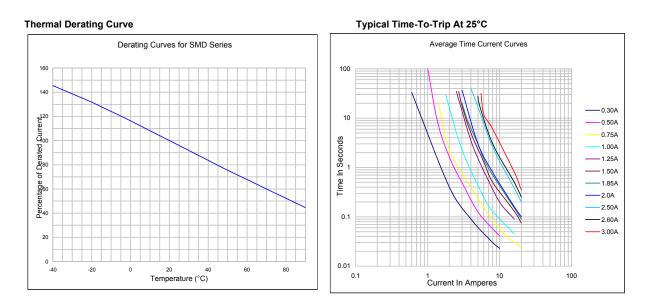
Terminal pad solderability :

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.

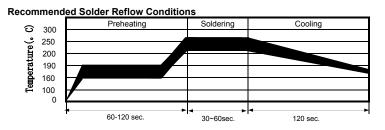


\rm WARNING:

· 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 olis 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

SMD075L-60V



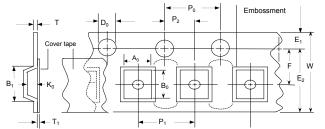
Recommended reflow methods : IR, vapor phase oven, hot air oven.

- · 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.

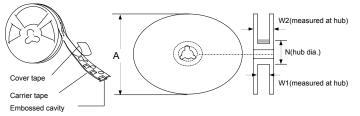
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	16.0 ± 0.3
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂	2.0 ± 0.05
A ₀	5.70 ± 0.10
B ₀	8.00 ± 0.10
B ₁ max.	12.1
D ₀	1.5 + 0.1, -0
F	7.5 ± 0.05
D ₀ F E ₁	1.75 ± 0.10
E ₂ min.	14.25
Tmax.	0.6
T ₁ max.	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.

der Information		Packaging		
SMD	075L	-60V	Tape & Reel Quantity	
Product name	Hold	Max		
Size 7555 mm /2920 inch	Current	Voltage	1,500 pcs/reel	
SMD : surface mount device	0.75A			

Labeling Information

Sea & Land Electronic Corp.
HF (Pb) RoHS
Model:
Part no.:
Spec.:
Lot no.:
Q'ty:
倉儲: 密封! 溫度: 18~33℃/濕度: 30~60% A

单击下面可查看定价,库存,交付和生命周期等信息

>>SEA-LAND(台湾陆海)