

APPROVAL SHEET

MODEL N	O.: SMD2018	-075-60V

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by:ChenApproved by:YC LinDATE:15-Mar-23

SEA & LAND ELECTRONIC CORP.



Features Surface Mount Devices

- Lead free device

Applications Almost anywhere there is a low voltage

- power supply, up to 60V and a load to be
- Size 4.5*3.2 mm/0.18*0.12 inch protected, including:
- Surface Mount packaging
- for automated assembly

PDAs & Charger, Analog & digital line card Digital cameras, Disk drivers, CD-ROMs,

Computer mother board, Modem. USB hub

Alpha-Top (Sea & Land Alliance)

SMD2018-075-60V

Model	V _{max} I _{max}		I _{hold}	I _{trip}	Pd	Maximum Time To Trip		Resistance		Agency Approval	
Woder			@25°C	@25°C	Max.	Current	Time	Ri _{min}	R1max	UL	τυν
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
SMD2018-075-60V	60	100	0.75	1.50	1.1	8.0	0.50	0.130	0.900		
hold = Hold Current.	Maximum curi	rent device v	/ill not trip in 2	5°C still air.							
trip = Trip Current. N	linimum curre	nt at which tl	ne device will a	always trip in 2	25°C still air.						
/max = Maximum ope	rating voltage	device can v	vithstand with	out damage a	t rated curre	nt (Imax).					
max = Maximum faul	t current device	ce can withst	and without d	amage at rate	d voltage (V	max).					
Pd = Power dissipati	on when devi	ce is in the ti	ipped state in	25°C still air e	environment	at rated voltag	e.				
Rimin/max = Minimum	/Maximum de	vice resistar	ce prior to trip	ping at 25°C.							
R1 _{max} = Maximum dev	ice resistance	is measured	l one hour pos	st reflow.							
CAUTION : Operation b	evond the en	onified roting	o mov roquit i	a damaga and	l noociblo or	aina and flama					

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 :

Regulation/Standard:

RoHS HF

2015/863/EU EN14582

Ihold Versus Temperature

Model	Maximum an	nbient operatii	ng temperatui	re (T _{mao}) vs. h	old current (I	hold)			
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SMD2018-075-60V	1.13	1.02	0.88	0.75	0.59	0.52	0.43	0.37	0.25

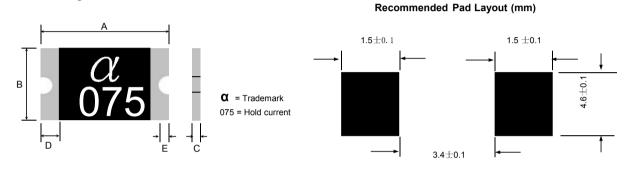


SMD2018-075-60V

Alpha-Top (Sea & Land Alliance)

Construction And Dimension (Unit:mm)									
Model	Α		В		С		D	E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
SMD2018-075-60V	4.72	5.44	4.22	4.93	0.80	1.50	0.30	0.30	

Dimensions & Marking



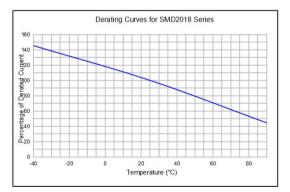
Termination Pad Characteristics

Terminal pad materials : Terminal pad solderability : Rework

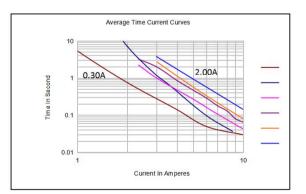
Tin-plated Nickel-Copper Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Use standard industry practices, the removal device must be replaced with a fresh one.

Thermal Derating Curve



Typical Time-To-Trip At 25°C



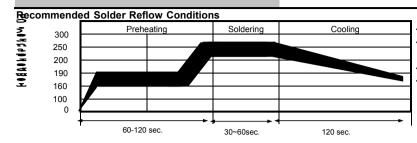
WARNING:

- 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.

200 200 150 050 030

SMD2018-075-60V

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• 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.

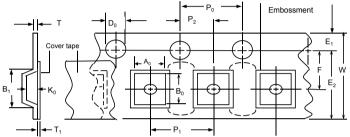
Recommended maximum paste thickness is 0.25 mm (0.010 inch). Devices can be cleaned using standard method and solvents.

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

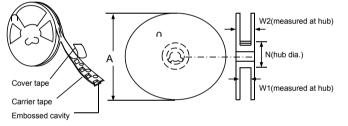
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-2
W	12.0 ± 0.20
P ₀	4.0 ± 0.10
P ₁	8.0 ± 0.10
P ₂ A ₀	2.0 ± 0.05
A ₀	4.40 ± 0.10
B ₀	5.50 ± 0.10
B₁max.	8.2
D ₀ F E ₁ E ₂ min.	1.5 + 0.1, -0.0
F	5.5 ± 0.05
E ₁	1.75 ± 0.10
E ₂ min.	10.25
Tmax.	0.6
T ₁ max.	0.1
K ₀	1.36 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	50
W ₁	12.4 + 2.0, -0.0
W ₂ max.	18.4

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

Order Information	Packaging				
SMD2018	075-60V	Tape & Reel Quantity			
Product name	Hold				
Size 5045mm/2018 inch	Current	1500 pcs/reel			
SMD : surface mount device	0.75A				

Tape & reel packaging per EIA481-1

Labeling Information

