

APPROVAL SHEET

MODEL NO.: SMD0603-020-16V

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

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Submitted by: Approved by: DATE: Chen YC Lin 8-Jul-22

SEA & LAND ELECTRONIC CORP.



SMD0603-020-16V

Features

Surface Mount Devices

- Lead free device
- Size 1.5*0.8 mm / 0.06*0.03 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

	÷	V				D	Maxi		Resis	stance		
Model	Marking	V _{max}	max	hold	I _{trip}	P _d	Time T		D:	Dámar	Agency A	Approval
				@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1max	UL	TUV
	-	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)		
SMD0603-020-16V	2	9	40	0.20	0.50	0.5	1.0	0.60	0.550	3.500	\checkmark	
Ihold = Hold Current	Ihold = Hold Current. Maximum current device will not trip in 25°C still air.											
Itrip = Trip Current.	Itrip = Trip Current. Minimum current at which the device will always trip in 25°C still air.											
Vmax = Maximum op	Vmax = Maximum operating voltage device can withstand without damage at rated current (Imax).											
Imax = Maximum fau	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.												
R1 _{max} = Maximum de	R1 _{max} = 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 :

Regulation/Standard:

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

HF

AI

PhoHS

2015/863/EU EN14582

Ihold Versus Temperature

Model		Max	kimum ambie	ent operating	temperature	e (T _{mao}) vs. h	old current (I _{hold})		
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
SMD0603-020-16V	0.27	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07	

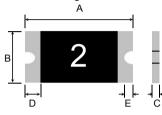
SMD0603-020-16V

Alpha-Top (Sea & Land Alliance)

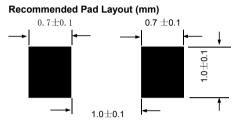
Construction And Dimension (Unit:mm)

Model		4		3	(;	D	E
Woder	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
SMD0603-020-16V	1.45	1.85	0.65	1.05	0.40	1.00	0.15	0.10

Dimensions & Marking







Termination Pad Characteristics

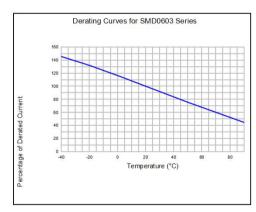
Terminal pad materials : Terminal pad solderability : Tin-plated Nickel-Copper

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

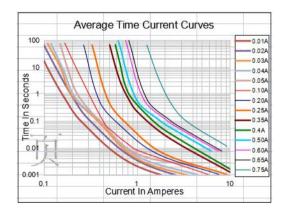
Rework

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

Thermal Derating Curve



Typical Time-To-Trip At 25°C



\Lambda 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.

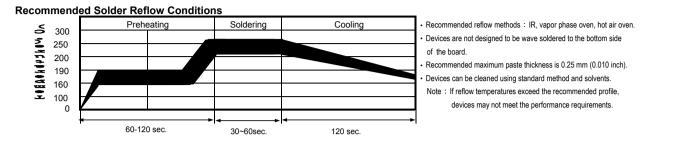
Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices. PPTC SMD can be cleaned by standard methods.

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.

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Tape And Reel Specifications (mm)

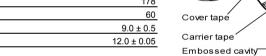
Paper Tape Component Dimensions

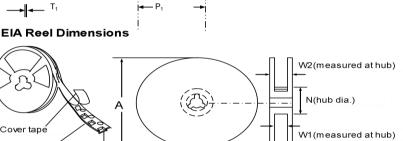
A

F

Do

Governing Specifications							
W	8.0 ± 0.2						
P ₀	4.0 ± 0.10						
P ₁	4.0 ± 0.10						
P ₂	2.0 ± 0.05						
A ₀	1.05 ± 0.10						
B ₀	1.85 ± 0.10						
D ₀	1.55 + 0.05						
F E ₁	3.5 ± 0.05						
E ₁	1.75 ± 0.10						
E ₂ min.	6.25						
Т	0.75						
T₁max.	0.1						
K ₀	0.75/0.95 ± 0.1						
Leader min.	390						
Trailer min.	160						
Reel Dimensions							
A max.	178						
N min.	60						
W ₁	9.0 ± 0.5						
W ₂	12.0 ± 0.05						





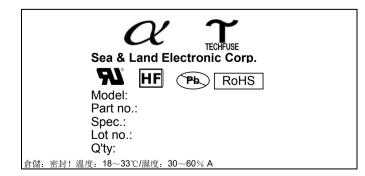
Storage And Handling

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

Order Information

Order Information	Packaging		
SMD0603	020-16V	Tape & Reel Quantity	
Product name	Hold		
Size 1508 mm / 0603 inch	Current	5,000 pcs/reel	
SMD: surface mount device	0.20A		

Tape & reel packaging per EIA481-1 Labeling Information



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)