

mSMD075

Performance Specification

						Maxii	mum	Resis	stance		
Model	V _{max}	I _{max}	hold	I _{trip}	P_{d}	Time To Trip				Agency Approval	
Woder			@25°C	@25°C	Тур.	Current	Time	Ri _{min}	R1 _{max}	UL	τυν
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	UL	100
mSMD075	13.2	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450	\checkmark	
Ihold = Hold Current. Maximum current device will not trip in 25°C still air.											
Itrip = Trip Current. N	trip = Trip Current. Minimum current at which the device will always trip in 25°C still air.										
Vmax = Maximum ope	rating voltage	device can w	ithstand with	out damage at	t rated currer	nt (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.											
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	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 trippe	ed state is 125 °C	

Agency Approvals :



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

Regulation/Standard:



2002/95/EC

EN14582

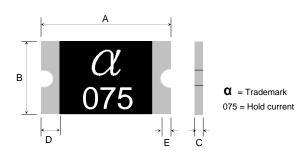
Ihold Versus Temperature

Mod	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
mSMD	075	1.10	0.99	0.87	0.75	0.63	0.57	0.49	0.45	0.35

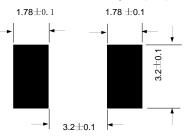
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Construction And Dimension (Unit:mm)										
Medal	Α		В		С		D	E		
Model	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.		
mSMD075	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25		

Dimensions & Marking



Recommended Pad Layout (mm)



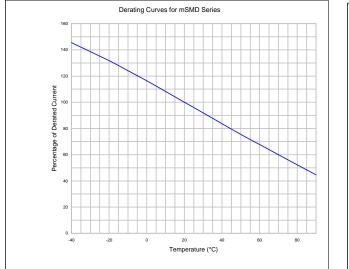
Termination Pad Characteristics

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

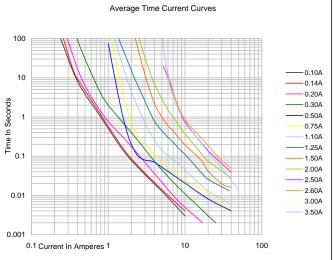
Rework

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

Thermal Derating Curve



Typical Time-To-Trip At 25°C



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.

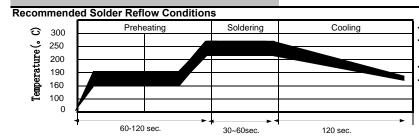
Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
 Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the 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 and lavouts and recommended reflow profile. Improver hoard lavouts or reflow profile could negatively impact solderabilit

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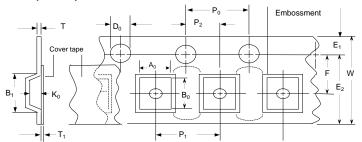
- Recommended reflow methods : IR, vapor phase oven, hot air oven. Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25 mm (0.010 inch). Devices can be cleaned using standard method and solvents.

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

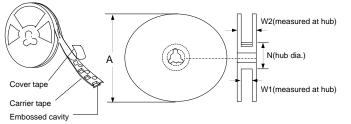
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-1
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
K0	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



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	075	Tape & Reel Quantity			
Product name	Hold				
Size 4532mm/1812 inch	Current	1,500 pcs/reel			
SMD : surface mount device	0.75A				