

nSMD 035

Performance Specification

Model	Marking	V _{max}	max	I _{hold}	I _{trip}	Pd	Maximum Time To Trip		Resistance		Agency Approval	
lalonei	Warking	(Vdc)	(A)	@25°C (A)	@25°C (A)	Max. (W)	Current (A)	Time (Sec)	Ri _{min} (Ω)	R1max (Ω)	UL	τυν
nSMD035	αB	6.0	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	\checkmark	
Ihold = Hold Current. Maximum current device will not trip in 25°C still air.												
trip = Trip Current. Minimum current at which the device will always trip in 25°C still air.												
Vmax = Maximum	Vmax = Maximum operating voltage device can withstand without damage at rated current (Imax).											
Imax = Maximum	max = Maximum fault current device can withstand without damage at rated voltage (Vmax).											
Pd = Power dissi	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 de	evice in the tripped state is 125 °C	

Agency Approvals :



E201504(Alpha-Top)/E319079

.

Regulation/Standard:



2002/95/EC

EN14582

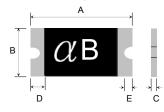
Ihold Versus Temperature

Madal	Maximum ambient operating temperature (T _{mao}) vs. hold current (I _{hold})									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C	
nSMD035	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.21	0.15	

nSMD 035

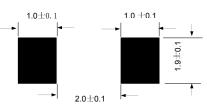
Construction And Dimension (Unit:mm)									
Model	А		В		С		D	E	
wodel	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	
nSMD035	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10	

Dimensions & Marking



 α = Trademark B = Part identification

Recommended Pad Layout (mm)



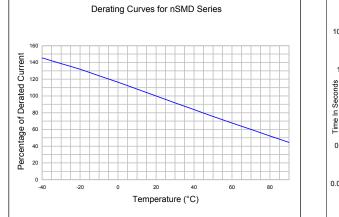
Termination Pad Characteristics

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



Average Time Current Curves 100 0.05A -0.10A 10 0 25A Time In Seconds 0.35A 0.50A -0.75A -1.00A 0.1 1.50A 2.00A 0.01 0.1 10 1 Current In Amperes

WARNING:

Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

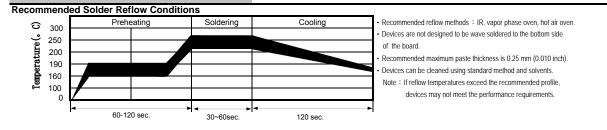
• DPTC are intended for protection against occasional over current or were magnetain possible conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
• Device performance can be impacted negatively if devices are handled in a manner inconsistent with 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.

Typical Time-To-Trip At 25°C

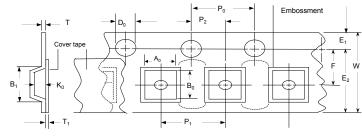
nSMD 035



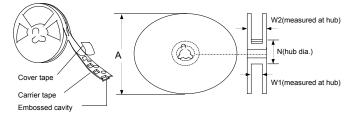
Tape And Reel Specifications (mm)

Governing Specifications	EIA 481-1
W	8.15 ± 0.3
P0	4.0 ± 0.10
P1	4.0 ± 0.10
P2	2.0 ± 0.05
A0	1.95 ± 0.10
B0	3.45 ± 0.10
B1max.	4.35
D0	1.5 + 0.1, -0
F	3.5 ± 0.05
E1	1.75 ± 0.10
E2min.	6.25
Tmax.	0.6
T1max.	0.1
<u>K0</u>	1.04 ± 0.1
Leader min.	390
Trailer min.	160
Reel Dimensions	
A max.	178
N min.	60
W1	9 ± 0.5
W2	12.6 ± 0.5

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				
nSMD	035	Tape & Reel Quantity			
Product name	Hold				
Size 3216 mm / 1206 inch	Current	5,000 pcs/reel			
SMD : surface mount device	0.35A				