

Performance Specification

Model	Marking	V _{max} (V dc)	I _{max} (A)	I _{hold} @25°C (A)	I _{trip} @25°C (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance	
							Current (A)	Time (Sec)	R _{i min} (Ω)	R _{1max} (Ω)
NSMD075/30	R7	30.0	35	0.75	1.50	0.6	8.00	0.20	0.090	0.500

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

R_{i min/max} = Minimum/Maximum device resistance prior to tripping at 25°C.

R_{1max} = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

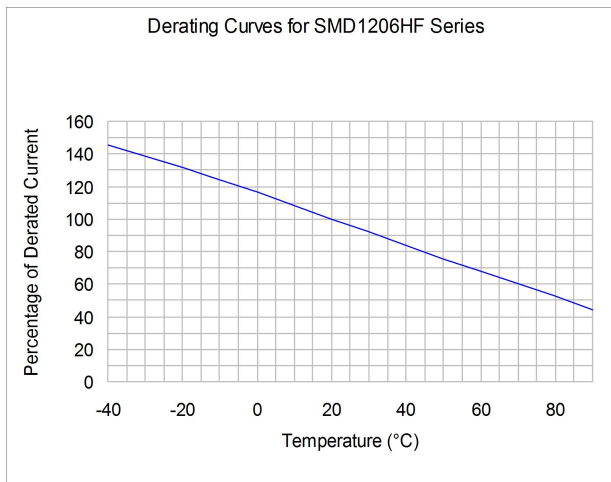
Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	I HOLD/I TRIP PASS
Humidity aging	+85°C, 85% R.H. , 168 hours	I HOLD/I TRIP PASS
Thermal shock	+85°C to -40°C, 20 times	I HOLD/I TRIP PASS
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 state is 125 °C		

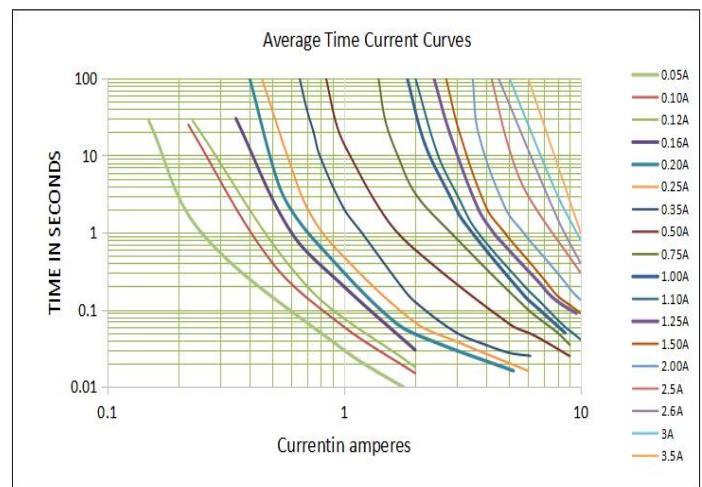
Thermal Derating Chart

Model	Ambient Operation Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
NSMD075/30	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41

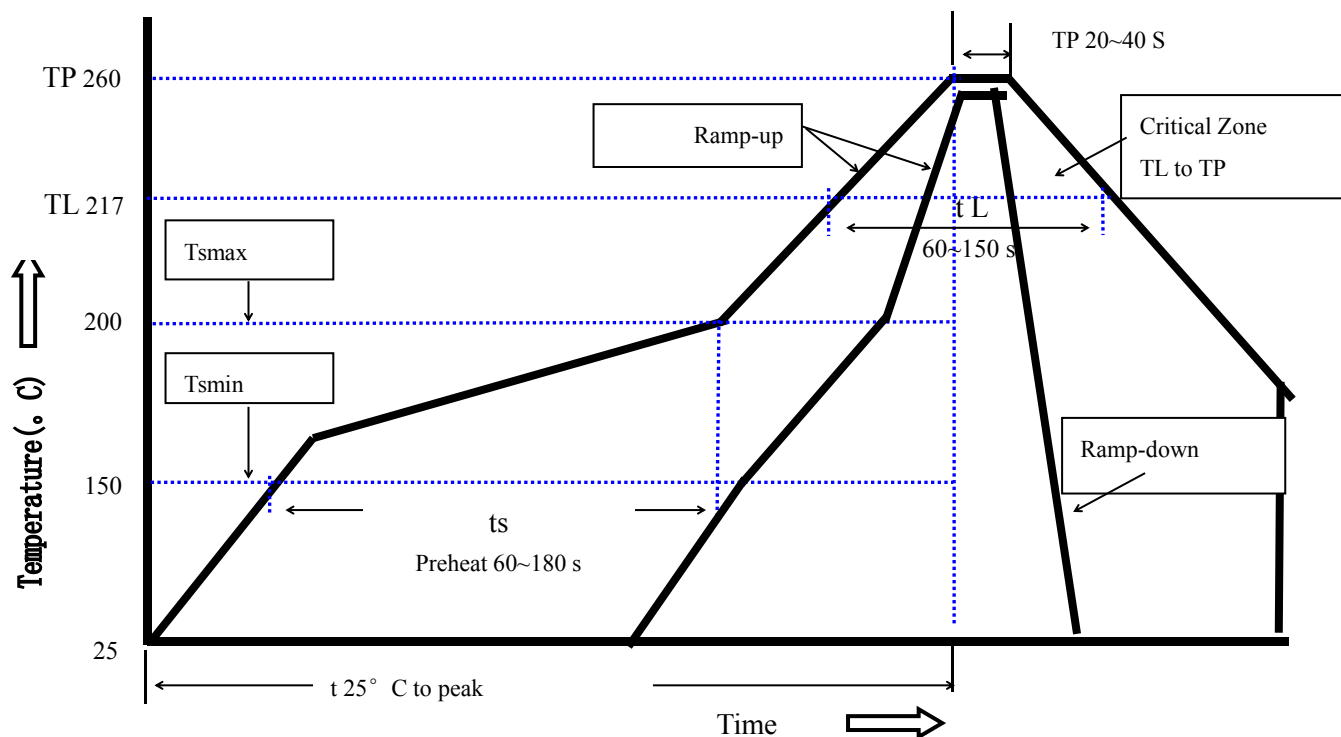
Thermal Derating Curve



Average Time-Current Curve



Soldering Parameters



Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate(Ts max to T p)	3°C/second max.
Preheat	
-Temperature Min(Ts min)	150°C
-Temperature Max(Ts max)	200°C
-Time(Ts min to Ts max)	60~180 seconds
Time maintained above:	
-Temperature(TL)	217°C
-Time(tL)	60~150 seconds
Peak Temperature(Tp)	260°C

Ramp-Down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max
Storage Condition	0°C~30°C,30%~60%RH

Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free

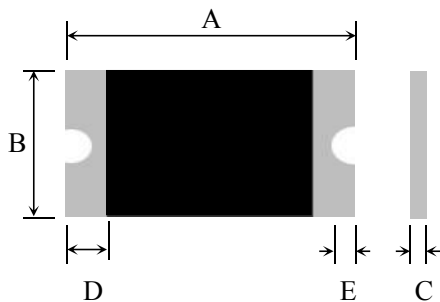
Recommended maximum paste thickness is 0.25mm

Devices can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Physical Dimensions(mm.)



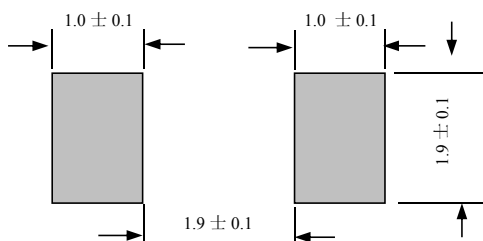
Model	A		B		C		D	E
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
NSMD075/30	3.00	3.60	1.50	1.90	0.5	1.00	0.15	0.10

Termination Pad Characteristics

Terminal pad materials: Tin-plated Nickel-Copper

Terminal pad solder ability: Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Recommended Pad Layout (mm.)



注：在此印锡面积条件下，推荐钢网厚度为 $\geq 0.12\text{MM}$ (钢网厚度不够要增大刷锡面积)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Resettable Fuses - PPTC](#) category:

Click to view products by [Yongyutai Electronics](#) manufacturer:

Other Similar products are found below :

[RF0077-000](#) [RF3301-000](#) [RF3382-000](#) [RF3394-000](#) [SMD125-2](#) [RF2531-000](#) [RF2873-000](#) [RF3060-000](#) [TR600-150Q-B-0.5-0.130](#)
[5E4795/04-1502](#) [SMD100-2](#) [NIS5431MT1TXG](#) [SMD250-2](#) [BK60-050-DI](#) [RS30-090](#) [RS30-600](#) [RS30-800](#) [RS30-900](#) [RS60RB-160](#)
[0ZCH0110AF2E](#) [BK60-110-DI-E0.6](#) [BK60-010-DI-E0.5](#) [BK250-040-DY-E0.6](#) [NIS6420MT1TWG](#) [BSMD0402L-005](#) [BSMD1210-150-16V](#)
[BSMD0402L-075](#) [BSMD1210-050-16V](#) [JK-SMD1210-050-13.2V](#) [JK-SMD1210-150/6V](#) [JK-SMD100L-33](#) [SMD2018-075-60V](#) [BSMD1210-](#)
[110-16V](#) [BSMD1210-150-12V](#) [JK-P730](#) [JK-SMD400L](#) [JK-SMD1210-030-16](#) [JK-SMD300L-16](#) [JK-SMD185L-33](#) [JK-P200](#) [JK250-180T](#)
[SRF1206P200](#) [TLC-USMD150/12](#) [TLC-USMD200/8](#) [TLC-USMD150/8](#) [FTR250-080](#) [FRT220-33F](#) [FUSB135F](#) [JK-mSMD125-8](#) [JK-P600](#)