

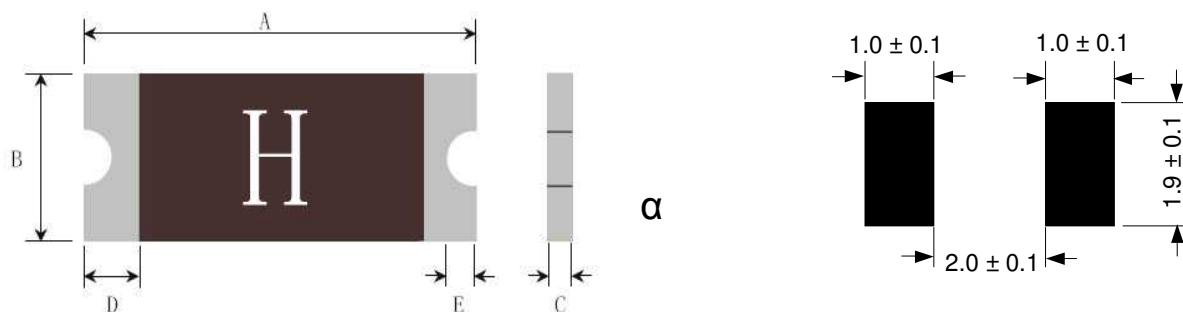
Features

- Surface Mount Devices
- Lead free device
- Size 3216 mm/1206 mils
- Surface Mount packaging for automated assembly
- Agency recognition:UL

Applications

Almost anywhere there is a low voltage power supply, up to DC60V 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

Dimensions (mm)**Product dimensions (mm)**

Model	A		B		C		D	E
	min	max	min	max	min	max	min	min
NSM005	3.00	3.5	1.5	1.8	0.60	1.1	0.15	0.1
NSM010	3.00	3.5	1.5	1.8	0.60	1.1	0.15	0.1
NSM025	3.00	3.5	1.5	1.8	0.40	0.90	0.15	0.1
NSM035	3.00	3.5	1.5	1.8	0.40	0.90	0.15	0.1
NSM050	3.00	3.5	1.5	1.8	0.35	0.85	0.15	0.1
NSM075	3.00	3.5	1.5	1.8	0.30	0.80	0.15	0.1
NSM100	3.00	3.5	1.5	1.8	0.40	0.80	0.15	0.1
NSM150	3.00	3.5	1.5	1.8	0.50	1.20	0.15	0.1
NSM200	3.00	3.5	1.5	1.8	0.50	1.20	0.15	0.1

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	85°C, 1000hrs	±5% typical
Humidity aging	85°C, 85% RH, 168hrs	±5% typical
Thermal shock	85°C, to -40°C, 13times	±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 of the device in the tripped state is 125°C

Electrical characteristics(25 °C)

Model	Marking	I _{hold}	I _{trip}	V _{max}	I _{max}	P _{d max}	Maximum Current	Time To Trip	Resistance
		(A)	(A)	(Vdc)	(A)	(w)	(A)	(S)	R _{min}
NSM005	Z	0.05	0.15	60	100	0.4	0.3	1.5	3.600
NSM010	N	0.10	0.25	60	100	0.4	0.5	1.00	1.600
NSM025	A	0.25	0.50	16	100	0.6	8.0	0.08	0.350
NSM035	B	0.35	0.75	6	100	0.6	8.0	0.1	0.250
NSM050	F	0.50	1.00	6	100	0.6	8.0	0.1	0.150
NSM050/13.2	F	0.50	1.00	13.2	100	0.6	8.0	0.1	0.150
NSM075	G	0.75	1.50	6	100	0.6	8.0	0.2	0.090
NSM100	H	1.00	1.80	6	100	0.6	8.0	0.3	0.055
NSM150	I	1.50	3.00	6	100	0.8	8.0	0.3	0.040
NSM200	K	2.00	3.50	6	100	0.8	8.0	1.5	0.018

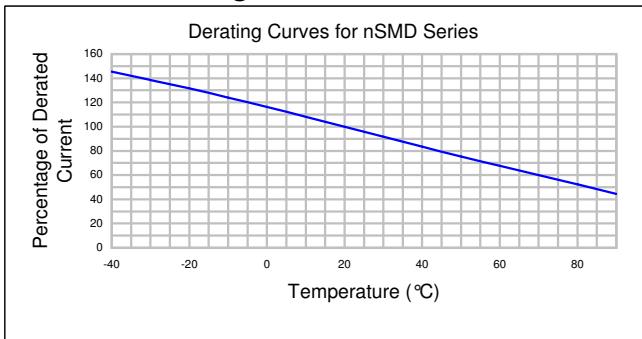
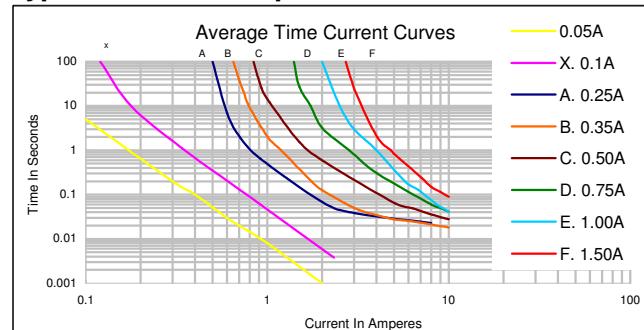
I _{hold}	Hold Current: Maximum current device will not trip in 25°C still air.
I _{trip}	Trip current: Minimum current at which the device will always trip in 25°C still air
V _{max}	Maximum operating voltage device can withstand without damage at rated current(I _{max})
I _{max}	Maximum fault current device can withstand without damage at rated voltage(V _{max}).
P _d	Typical power dissipate from device when in the tripped state in 25°C still air.
R _{min/max}	Minimum/Maximum device resistance prior to tripping at 25°C.
R _{1max}	Maximum resistance of device at 25°C measured one hour after trippe tripping.
*CAUTION	Operation beyond the specified rating may result in damage and possible arcing.

I_{hold} versus temperature

Model	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
NSM005	0.074	0.066	0.058	0.05	0.0425	0.0375	0.035	0.03	0.0275
NSM010	0.145	0.33	0.115	0.10	0.085	0.08	0.07	0.06	0.055
NSM025	0.37	0.33	0.29	0.25	0.220	0.20	0.17	0.15	0.12
NSM035	0.50	0.45	0.40	0.35	0.300	0.27	0.24	0.21	0.15
NSM050	0.71	0.64	0.57	0.50	0.420	0.39	0.35	0.31	0.25
NSM075	1.14	1.01	0.88	0.75	0.650	0.59	0.54	0.49	0.41
NSM100	1.45	1.31	1.15	1.00	0.840	0.77	0.69	0.61	0.48
NSM150	2.18	1.94	1.72	1.50	1.280	1.17	1.06	0.96	0.77
NSM200	2.88	2.63	2.34	2.00	1.740	1.58	1.42	1.17	0.93

Termination pad characteristics

Terminal pad materials	Tin-Plated Nickle-Copper or Gold-Plated Nickle-Copper
Terminal pad solderability	Meets EIA specification RS186-9E and ANSI/J-STD-002 Category 3.

Thermal Derating Curve**Typical Time-To-Trip At 25 °C****Package Information****Reel:**

NSM005~010	3500pcs/Reel
NSM025~100	5000pcs/Reel
NSM150	3000pcs/Reel
NSM200	3500pcs/Reel