

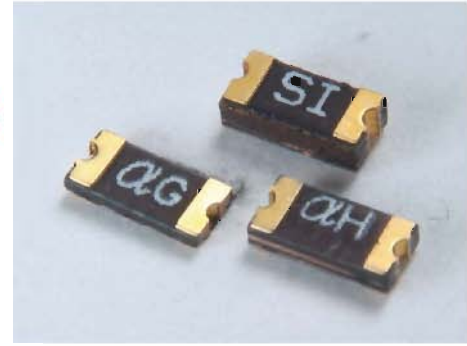


CONQUER

Resettable Fuses

Type nSMD (1206) Series

Surface-mount Resettable Devices



Approvals

UL Recognized 0.25A~1.5A

Agency File Numbers

UL E201504

Electrical Characteristics

Operating/Storage Temperature

-40°C to +85°C

Maximum Device Surface Temperature

In Tripped State 125°C

Passive Aging

+85°C, 1000Hours, ±5% Typical Resistance Change

Humidity Aging

+85°C, 85%R.H., 168Hours, ±5% Typical Resistance Change

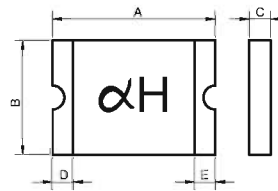
Thermal Shock:

MIL-STD-202, Method 215, +85°C / -40°C, 20 Times, ±33% Typical Resistance Change

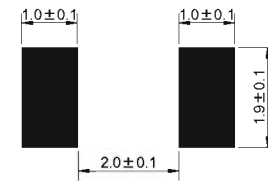
Vibration

MIL-STD-202, Method 201, 1 No Resistance Change

Mechanical Dimensions



Recommended pad layout (mm)



Physical and Dimension(Unit: mm)

Modle	A		B		C		D	E
	Min.	Max.	Min	Max.	Min.	Max.	Min.	Min.
nSMD005	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD010	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD025	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD035	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD050	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD075	3.00	3.50	1.50	1.80	0.27	0.65	0.15	0.10
nSMD100	3.00	3.50	1.50	1.80	0.50	1.25	0.15	0.10
nSMD150	3.00	3.50	1.50	1.80	0.75	1.80	0.15	0.10

Materials

Tin-Plated Nickle-Copper or Gold-Plated Nickle-Copper

Packaging

Tape & Reel Quantity 4,000 pcs/reel

Electrical Specification

Modle	Marketing	V _{max} (Vdc)	I _{max} (A)	I _{hold} @25°C (A)	I _{trip} @25°C (A)	P _d Max. (W)	Maximum Time To Trip		Resistance	
							Current (A)	Time (Sec)	R _{ityp} (Ω)	R _{1max} (Ω)
nSMD005	α Z	60.0	10	0.05	0.15	0.4	0.3	1.50	0.360	50.000
nSMD010	α N	60.0	10	0.10	0.25	0.4	0.5	1.00	1.600	15.000
nSMD025	α A	16.0	10	0.25	0.50	0.6	8.0	0.08	0.350	2.500
nSMD035	α B	6.0	10	0.35	0.75	0.6	8.0	0.10	0.250	1.300
nSMD050	α F	6.0	10	0.50	1.00	0.6	8.0	0.10	0.150	0.700
nSMD050-13.2V	α F	6.0	10	0.50	1.00	0.6	8.0	0.10	0.150	0.700
nSMD075	α G	6.0	10	0.75	1.50	0.6	8.0	0.20	0.090	0.500
nSMD100	α H	6.0	10	1.00	1.80	0.6	8.0	0.30	0.055	0.270
nSMD150	α I	6.0	10	1.50	3.00	0.6	8.0	1.00	0.040	0.130

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

R_{ityp} = 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.