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Techfuse
PTC Devices
Resettable Fuse

PRODUCT: nSMD series
DOCUMENT: QR0429
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Specification Sheet

Terminal Pad Solderability:
Meets EIA Specification RS186-9E
And ANSI/J-STD-002 Category 3.

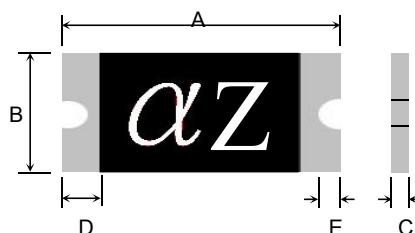
Terminal Pad Materials:
Tin-plated Nickel-Copper

Lead-Free, RoHS Compliant

Marking:

Part Identification

nSMD005 = αZ

**TABLE I. DIMENSIONS:**

Model	Marking	A		B		C		D	E
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
nSMD001	αT	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD002	αT	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD003	αT	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD003-72V	αT	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD003-90V	αT	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD005	αZ	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD005-72V	αZ	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD005-90V	αZ	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD010-12V	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD010-30V	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD010	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD010-72V	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD012-30V	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD012	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD012-72V	αN	3.00	3.50	1.50	1.80	0.60	1.10	0.15	0.10
nSMD016-24V	αD	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD016	αD	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD016-48V	αD	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020-16V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020-30V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020-33V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020-35V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD020-48V	αA	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD020-50V	αA	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD020-60V	αA	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD025	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD025-24V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD025-30V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD025-33V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD025-35V	αA	3.00	3.50	1.50	1.80	0.40	0.90	0.15	0.10
nSMD025-48V	αA	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD030	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD030-13.2V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD030-16V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD030-24V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD030-33V	αB	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD035	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10

nSMD035-13.2V	α B	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-16V	α B	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-24V	α B	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-33V	α B	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD035-42V	α B	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD050	α F	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-13.2V	α F	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-15V	α F	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-16V	α F	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-24V	α F	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-30V	α F	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD050-33V	α F	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD075	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-8V	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-12V	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-13.2V	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-16V	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-24V	α G	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-30V	α G	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD075-33V	α G	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD100	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-8V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-13.2V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-16V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-24V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD100-30V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD100-33V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD110	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-8V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-12V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-13.2V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-16V	α H	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-24V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD110-30V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD110-33V	α H	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD120	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD120-16V	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD125	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD125-8V	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD125-13.2V	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD125-16V	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD125-24V	α J	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150	α I	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150-13.2V	α I	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150-16V	α I	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD200	α K	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD200-12V	α K	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD200-16V	α K	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD250	α L	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD300	α P	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10

Model	Marking	$V_{\max}$ (Vdc)	$I_{\max}$ (A)	I_{hold} @25°C (A)	I_{trip} @25°C (A)	P_d Max. (W)	Maximum Time To Trip		Resistance		Agency Approval		
							Current (A)	Time (Sec)	$R_{i\min}$ (Ω)	$R_{1\max}$ (Ω)	UL	TUV	CQC
nSMD001	α T	60	20	0.01	0.05	0.4	0.10	1.00	15.000	#####		✓	✓
nSMD002	α T	60	20	0.02	0.08	0.4	0.20	1.00	9.000	#####		✓	✓

nSMD003	αT	60	20	0.03	0.10	0.4	0.40	1.20	8.000	80.000		✓	✓
nSMD003-72V	αT	72	100	0.03	0.10	0.4	0.40	1.20	8.000	80.000		✓	
nSMD003-90V	αT	90	100	0.03	0.10	0.4	0.40	1.20	8.000	80.000		✓	
nSMD005	αZ	60	100	0.05	0.15	0.4	0.25	1.50	3.600	50.000	✓	✓	✓
nSMD005-72V	αZ	72	100	0.05	0.15	0.4	0.25	1.50	3.600	50.000		✓	
nSMD005-90V	αZ	90	100	0.05	0.15	0.4	0.25	1.50	3.600	50.000		✓	
nSMD010-12V	αN	12	100	0.10	0.25	0.4	0.50	1.00	1.600	15.000			
nSMD010-30V	αN	30	100	0.10	0.25	0.4	0.50	1.00	1.600	15.000		✓	✓
nSMD010	αN	60	100	0.10	0.25	0.4	0.50	1.00	1.600	15.000	✓	✓	✓
nSMD010-72V	αN	72	100	0.10	0.25	0.4	0.50	1.00	1.600	15.000		✓	
nSMD012-30V	αN	30	100	1.20	0.29	0.4	0.50	1.00	1.600	15.000		✓	✓
nSMD012	αN	60	100	1.20	0.29	0.4	0.50	1.00	1.600	15.000	✓	✓	✓
nSMD012-72V	αN	72	100	1.20	0.29	0.4	0.50	1.00	1.600	15.000		✓	
nSMD016-24V	αD	24	100	0.16	0.37	0.4	1.00	0.30	1.200	5.000	✓	✓	
nSMD016	αD	30	100	0.16	0.37	0.4	1.00	0.30	1.200	5.000	✓	✓	✓
nSMD016-48V	αD	48	100	0.16	0.37	0.4	1.00	0.30	1.200	5.000	✓	✓	✓
nSMD020-16V	αA	16	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	
nSMD020	αA	24	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700	✓	✓	✓
nSMD020-30V	αA	30	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700	✓	✓	✓
nSMD020-33V	αA	33	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	
nSMD020-35V	αA	35	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	
nSMD020-48V	αA	48	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	
nSMD020-50V	αA	50	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	
nSMD020-60V	αA	60	100	0.20	0.46	0.6	8.00	0.08	0.350	2.700		✓	✓
nSMD025	αA	16	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500	✓	✓	✓
nSMD025-24V	αA	24	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500	✓	✓	✓
nSMD025-30V	αA	30	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500	✓	✓	✓
nSMD025-33V	αA	33	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500			
nSMD025-35V	αA	35	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500		✓	
nSMD025-48V	αA	48	100	0.25	0.50	0.6	8.00	0.08	0.350	2.500		✓	
nSMD030	αB	6	100	0.30	0.65	0.6	8.00	0.10	0.250	2.000	✓	✓	✓
nSMD030-13.2V	αB	13.2	100	0.30	0.65	0.6	8.00	0.10	0.250	2.000	✓	✓	✓
nSMD030-16V	αB	16	100	0.30	0.65	0.6	8.00	0.10	0.250	2.000	✓	✓	✓
nSMD030-24V	αB	24	100	0.30	0.65	0.6	8.00	0.10	0.250	2.000	✓	✓	✓
nSMD030-33V	αB	33	100	0.30	0.65	0.6	8.00	0.10	0.250	2.000	✓	✓	✓
nSMD035	αB	6	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	✓	✓	✓
nSMD035-13.2V	αB	13.2	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	✓	✓	✓
nSMD035-16V	αB	16	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	✓	✓	✓
nSMD035-24V	αB	24	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	✓	✓	✓
nSMD035-33V	αB	33	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300	✓	✓	✓
nSMD035-42V	αB	42	100	0.35	0.75	0.6	8.00	0.10	0.250	1.300		✓	
nSMD050	αF	6	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD050-13.2V	αF	13.2	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD050-15V	αF	15	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD050-16V	αF	16	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD050-24V	αF	24	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD050-30V	αF	30	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	
nSMD050-33V	αF	33	100	0.50	1.00	0.6	8.00	0.10	0.150	0.700	✓	✓	✓
nSMD075	αG	6	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD075-8V	αG	8	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500		✓	
nSMD075-12V	αG	12	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD075-13.2V	αG	13.2	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD075-16V	αG	16	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD075-24V	αG	24	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD075-30V	αG	30	100	0.75	1.50	0.6	8.00	0.20	0.090	0.500		✓	
nSMD075-33V	αG	33	400	0.75	1.50	0.6	8.00	0.20	0.090	0.500	✓	✓	✓
nSMD100	αH	6	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	✓
nSMD100-8V	αH	8	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270		✓	✓
nSMD100-13.2V	αH	13.2	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	✓

nSMD100-16V	α H	16	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	✓
nSMD100-24V	α H	24	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	✓
nSMD100-30V	α H	30	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	
nSMD100-33V	α H	33	100	1.00	1.80	0.6	8.00	0.30	0.055	0.270	✓	✓	
nSMD110	α H	6	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	✓
nSMD110-8V	α H	8	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250		✓	
nSMD110-12V	α H	12	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	
nSMD110-13.2V	α H	13.2	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	✓
nSMD110-16V	α H	16	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	✓
nSMD110-24V	α H	24	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	✓
nSMD110-30V	α H	30	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250	✓	✓	
nSMD110-33V	α H	33	100	1.10	2.20	0.6	8.00	0.30	0.050	0.250			
nSMD120	α J	6	100	1.20	2.30	0.8	8.00	0.30	0.040	0.220			
nSMD120-16V	α J	16	100	1.20	2.30	0.8	8.00	0.30	0.040	0.220			
nSMD125	α J	6	100	1.25	2.50	0.8	8.00	0.30	0.040	0.200	✓	✓	✓
nSMD125-8v	α J	8	100	1.25	2.50	0.8	8.00	0.30	0.040	0.200		✓	
nSMD125-13.2V	α J	13.2	100	1.25	2.50	0.8	8.00	0.30	0.040	0.200	✓	✓	✓
nSMD125-16V	α J	16	100	1.25	2.50	0.8	8.00	0.30	0.040	0.200	✓	✓	✓
nSMD125-24V	α J	24	100	1.25	2.50	0.8	8.00	0.30	0.040	0.200	✓	✓	
nSMD150	α I	6	100	1.50	3.00	0.8	8.00	0.30	0.030	0.130	✓	✓	✓
nSMD150-13.2V	α I	13.2	100	1.50	3.00	0.8	8.00	0.30	0.030	0.130	✓	✓	✓
nSMD150-16V	α I	16	100	1.50	3.00	0.8	8.00	0.30	0.030	0.130	✓	✓	✓
nSMD200	α K	6	100	2.00	3.50	0.8	8.00	1.50	0.018	0.080	✓	✓	✓
nSMD200-12V	α K	12	100	2.00	3.50	0.8	8.00	1.50	0.018	0.080		✓	
nSMD200-16V	α K	16	100	2.00	3.50	0.8	8.00	1.50	0.018	0.080		✓	
nSMD250	α L	6	100	2.50	5.00	0.8	8.00	2.00	0.150	0.070		✓	✓
nSMD300	α P	6	100	3.00	6.00	1.2	8.00	4.00	0.010	0.050			

Order Information

Packaging

SMD1206	200	Tape & Reel Quantity	
Product name	Hold	Max	
Size 3216 mm / 1206 mils	Current	voltage	005,010,075(12V above),150,200 3500 pcs/reel
SMD: surface mount device	2.00A		020,025,035,050,075,100 5000 pcs/reel

Recognition:

Agency Approvals :



E201504/E319079



J 50656626



CQC25001473187

GB 4943.1-2022;IEC 60730-1 : 2013 15 、 17 、 J.15 、 J.17;GB/T 7153-200

Regulation/Standard:

2015/863/EU



EN14582

