

SEA&LAND ELECTRONIC CORP.

13F., No.120-10,
 Sec. 3, Zhongshan Rd., Zhonghe Dist., New Taipei City 235,
 Taiwan
 Tel.: 886-2-8221-2567
 Fax.: 886-2-2225-7268

Techfuse
PTC Devices
 Resettable Fuse

PRODUCT: nSMD series
 DOCUMENT: QR0429
 ECN. NO.:
 REV LETTER:
 REV DATE: 2023-1-3
 PAGE NO.: 1 of 1

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

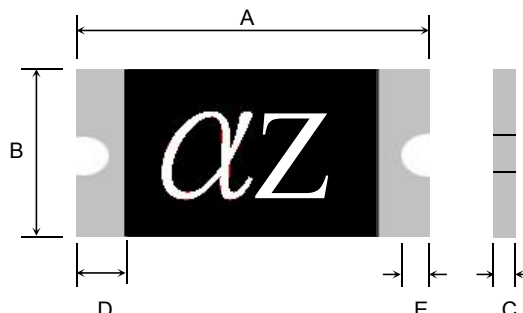


TABLE I. DIMENSIONS:

Model	Marking	A		B		C		D	E
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
nSMD003	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
nSMD010	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
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
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
nSMD035	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-13.2V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-16V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-24V	αB	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD035-33V	αB	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD050	αF	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-13.2V	αF	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-16V	αF	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD050-24V	αF	3.00	3.50	1.50	1.80	0.80	1.40	0.15	0.10
nSMD050-33V	αF	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD075	αG	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-13.2V	αG	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-16V	αG	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-24V	αG	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD075-33V	αG	3.00	3.50	1.50	1.80	0.80	1.80	0.15	0.10
nSMD100	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-13.2V	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD100-16V	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-13.2V	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD110-16V	αH	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150	αI	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150-13.2V	αI	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD150-16V	αI	3.00	3.50	1.50	1.80	0.50	1.20	0.15	0.10
nSMD200	αk	3	3.5	1.5	1.8	0.5	1.2	0.15	0.1
nSMD250	αL	3.00	3.50	1.50	1.80	0.08	1.40	0.15	0.10

TABLE II. PERFORMANCE RATINGS:

Model	Marking	V _{max} (Vdc)	I _{max} (A)	I _{hold} @25°C (A)	I _{trip} @25°C (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		Agency Approval	
							Current (A)	Time (Sec)	R _{i min} (Ω)	R _{i typ} (Ω)	UL	TUV
nSMD003	<i>αT</i>	60.0	100	0.03	0.10	0.4	0.2	1.20	8.000	80.000		
nSMD005	<i>αZ</i>	60.0	100	0.05	0.15	0.4	0.25	1.50	3.600	50.000	✓	
nSMD010	<i>αN</i>	60.0	100	0.10	0.25	0.4	0.5	1.00	1.600	15.000	✓	
nSMD012	<i>αN</i>	60.0	100	0.12	0.29	0.4	0.5	1.00	1.600	15.000	✓	
nSMD020	<i>αA</i>	24.0	100	0.20	0.46	0.6	8.0	0.08	0.350	2.700	✓	
nSMD020-30V	<i>αA</i>	30.0	100	0.20	0.46	0.6	8.0	0.08	0.350	2.700		
nSMD025	<i>αA</i>	16.0	100	0.25	0.50	0.6	8.0	0.08	0.350	2.500	✓	
nSMD025-24V	<i>αA</i>	24.0	100	0.25	0.50	0.6	8.0	0.08	0.350	2.500		
nSMD025-30V	<i>αA</i>	30.0	100	0.25	0.50	0.6	8.0	0.08	0.350	2.500		
nSMD035	<i>αB</i>	6.0	100	0.35	0.75	0.6	8.0	0.10	0.250	1.300	✓	
nSMD035-13.2V	<i>αB</i>	13.2	100	0.35	0.75	0.6	8.0	0.10	0.250	1.300		
nSMD035-16V	<i>αB</i>	16.0	100	0.35	0.75	0.6	8.0	0.10	0.250	1.300	✓	
nSMD035-24V	<i>αB</i>	24.0	100	0.35	0.75	0.6	8.0	0.10	0.250	1.300		
nSMD035-33V	<i>αB</i>	33.0	100	0.35	0.75	0.6	8.0	0.10	0.250	1.300		
nSMD050	<i>αF</i>	6.0	100	0.50	1.00	0.6	8.0	0.10	0.150	0.700	✓	
nSMD050-13.2V	<i>αF</i>	13.2	100	0.50	1.00	0.6	8.0	0.10	0.150	0.700	✓	
nSMD050-16V	<i>αF</i>	16.0	100	0.50	1.00	0.6	8.0	0.10	0.150	0.700	✓	
nSMD050-24V	<i>αF</i>	24.0	100	0.50	1.00	0.6	8.0	0.10	0.150	0.700		
nSMD050-33V	<i>αF</i>	33.0	100	0.50	1.00	0.6	8.0	0.10	0.150	0.700		
nSMD075	<i>αG</i>	6.0	100	0.75	1.50	0.6	8.0	0.20	0.090	0.500	✓	
nSMD075-13.2V	<i>αG</i>	13.2	100	0.75	1.50	0.6	8.0	0.20	0.090	0.500		
nSMD075-16V	<i>αG</i>	16.0	100	0.75	1.50	0.6	8.0	0.20	0.090	0.500		
nSMD075-24V	<i>αG</i>	24.0	100	0.75	1.50	0.6	8.0	0.20	0.090	0.500		
nSMD075-33V	<i>αG</i>	33.0	100	0.75	1.50	0.6	8.0	0.20	0.090	0.500		
nSMD100	<i>αH</i>	6.0	100	1.00	1.80	0.6	8.0	0.30	0.055	0.270	✓	✓
nSMD100-13.2V	<i>αH</i>	13.2	100	1.00	1.80	0.6	8.0	0.30	0.055	0.270		
nSMD100-16V	<i>αH</i>	16.0	100	1.00	1.80	0.6	8.0	0.30	0.055	0.270		
nSMD110	<i>αH</i>	6.0	100	1.10	2.20	0.6	8.0	0.30	0.050	0.250	✓	
nSMD110-13.2V	<i>αH</i>	13.2	100	1.10	2.20	0.6	8.0	0.30	0.050	0.250		
nSMD110-16V	<i>αH</i>	16.0	100	1.10	2.20	0.6	8.0	0.30	0.050	0.250	✓	
nSMD150	<i>αI</i>	6.0	100	1.50	3.00	0.8	8.0	0.30	0.030	0.130	✓	✓
nSMD150-13.2V	<i>αI</i>	13.2	100	1.50	3.00	0.8	8.0	0.30	0.030	0.130	✓	
nSMD150-16V	<i>αI</i>	16.0	100	1.50	3.00	0.8	8.0	0.30	0.030	0.130	✓	
nSMD200	<i>αk</i>	6.0	100	2.00	3.50	0.8	8.0	1.50	0.018	0.080	✓	
nSMD250	<i>αL</i>	6.0	100	2.50	5.00	1.2	8.0	2.00	0.015	0.070		

Order Information

Packaging

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

Recognition: SMD1206-003~005~010~012~020~025~035~050~075~100~110~150~200:UL Approved.

SMD1206-100~150 :TÜV, Approved.

E201504/E319079

R 50141892: R 50265895

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EN14582

