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Techfuse
PTC Devices
 Resettable Fuse

PRODUCT: mSMD series
 DOCUMENT: QR0429
 ECN. NO.:
 REV LETTER:
 REV DATE: 2021-4-30
 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:

α Alpha Logo
 110 Part Identification

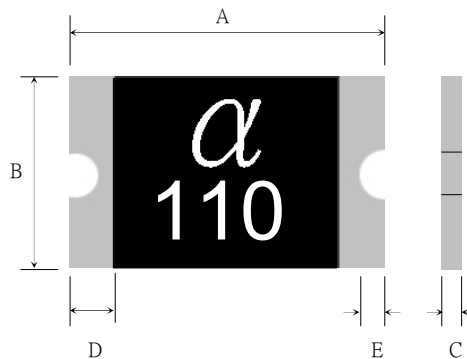


TABLE I. DIMENSIONS:

Model	A		B		C		D	E
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
mSMD010	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.25
mSMD010-60V	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.25
mSMD014	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.25
mSMD020	4.37	4.73	3.07	3.41	0.50	1.30	0.30	0.25
mSMD020-60V	4.37	4.73	3.07	3.41	0.50	1.30	0.30	0.25
mSMD030	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.25
mSMD030-60V	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.25
mSMD050-15V	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD050	4.37	4.73	3.07	3.41	0.06	1.60	0.30	0.25
mSMD050-60V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD075	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD075-16V	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD075-24V	4.37	4.73	3.07	3.41	0.60	1.50	0.30	0.25
mSMD075-33V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD100	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD100-16V	4.37	4.73	3.07	3.41	0.60	1.50	0.30	0.25
mSMD100-24V	4.37	4.73	3.07	3.41	0.60	1.50	0.30	0.25
mSMD100-33V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD110	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD110-16V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD110-24V	4.37	4.73	3.07	3.41	0.60	1.60	0.30	0.25
mSMD110-33V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD125	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD150	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD150-16V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD150-24V	4.37	4.73	3.07	3.41	0.60	1.80	0.30	0.25
mSMD160	4.37	4.73	3.07	3.41	0.40	0.90	0.30	0.25
mSMD160-13.2V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD160-16V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD200	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD200-13.2V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD200-16V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD200-24V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD260	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD260-13.2V	4.37	4.73	3.07	3.41	0.60	1.30	0.30	0.25
mSMD260-16V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD260-24V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD300	4.37	4.73	3.07	3.41	0.50	1.30	0.30	0.25
mSMD300-13.2V	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25
mSMD350	4.37	4.73	3.07	3.41	0.50	1.30	0.30	0.25
mSMD375	4.37	4.73	3.07	3.41	0.50	1.30	0.30	0.25
mSMD400	4.37	4.73	3.07	3.41	0.90	1.80	0.30	0.25

Unit:mm

TABLE II. PERFORMANCE RATINGS:

Model	V _{max} (V)	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
mSMD010	30.0	100	0.10	0.30	0.8	0.5	1.50	0.750	15.000	✓	✓
mSMD010-60V	60.0	100	0.10	0.30	0.8	0.5	1.50	0.750	15.000	✓	✓
mSMD014	60.0	100	0.14	0.34	0.8	1.5	0.15	0.650	6.000	✓	✓
mSMD020	30.0	100	0.20	0.40	0.8	8.0	0.02	0.350	5.000		✓
mSMD020-60V	60.0	100	0.20	0.40	0.8	8.0	0.02	0.350	5.000		✓
mSMD030	30.0	100	0.30	0.60	0.8	8.0	0.10	0.250	3.000	✓	✓
mSMD030-60V	60.0	100	0.30	0.60	0.8	8.0	0.10	0.250	3.000		✓
mSMD050-15V	15.0	100	0.50	1.00	0.8	8.0	0.15	0.150	1.000	✓	✓
mSMD050	33.0	100	0.50	1.00	0.8	8.0	0.15	0.150	1.000	✓	✓
mSMD050-60V	60.0	100	0.50	1.00	0.8	8.0	0.15	0.150	1.000	✓	✓
mSMD075	13.2	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450	✓	✓
mSMD075-16V	16.0	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450		✓
mSMD075-24V	24.0	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450	✓	✓
mSMD075-33V	33.0	100	0.75	1.50	0.8	8.0	0.20	0.090	0.450	✓	✓
mSMD100	8.0	100	1.00	1.80	0.8	8.0	0.30	0.055	0.270		✓
mSMD100-16V	16.0	100	1.00	1.80	0.8	8.0	0.30	0.055	0.270		✓
mSMD100-24V	24.0	100	1.00	1.80	0.8	8.0	0.30	0.055	0.270		✓
mSMD100-33V	33.0	100	1.00	1.80	0.8	8.0	0.30	0.055	0.270		✓
mSMD110	8.0	100	1.10	2.20	0.8	8.0	0.30	0.050	0.250	✓	✓
mSMD110-16V	16.0	100	1.10	2.20	0.8	8.0	0.30	0.050	0.250	✓	✓
mSMD110-24V	24.0	100	1.10	2.20	0.8	8.0	0.30	0.050	0.250		✓
mSMD110-33V	33.0	100	1.10	2.20	0.8	8.0	0.30	0.050	0.250	✓	✓
mSMD125	16.0	100	1.25	2.50	0.8	8.0	0.40	0.050	0.140		✓
mSMD150	8.0	100	1.50	3.00	0.8	8.0	0.50	0.040	0.160	✓	✓
mSMD150-16V	16.0	100	1.50	3.00	0.8	8.0	0.50	0.040	0.160	✓	✓
mSMD150-24V	24.0	100	1.50	3.00	0.8	8.0	0.50	0.040	0.160		✓
mSMD160	8.0	100	1.60	2.80	0.8	8.0	1.00	0.030	0.130	✓	✓
mSMD160-13.2V	13.2	100	1.60	2.80	0.8	8.0	1.00	0.030	0.130		✓
mSMD160-16V	16.0	100	1.60	2.80	0.8	8.0	1.00	0.030	0.130		✓
mSMD200	8.0	100	2.00	4.00	0.8	8.0	2.00	0.015	0.100	✓	✓
mSMD200-13.2V	13.2	100	2.00	4.00	0.8	8.0	2.00	0.015	0.100		✓
mSMD200-16V	16.0	100	2.00	4.00	0.8	8.0	2.00	0.015	0.100		✓
mSMD200-24V	24.0	100	2.00	4.00	0.8	8.0	2.00	0.015	0.100		✓
mSMD260	8.0	100	2.60	5.00	0.8	8.0	2.50	0.015	0.050	✓	✓
mSMD260-13.2V	13.2	100	2.60	5.00	0.8	8.0	2.50	0.015	0.080		✓
mSMD260-16V	16.0	100	2.60	5.00	0.8	8.0	2.50	0.015	0.080		✓
mSMD260-24V	24.0	100	2.60	5.00	0.8	8.0	2.50	0.015	0.080		✓
mSMD300	8.0	100	3.00	5.00	0.8	8.0	4.00	0.012	0.040		✓
mSMD300-13.2V	13.2	100	3.00	5.00	0.8	8.0	4.00	0.012	0.040		✓
mSMD350	6.0	100	3.50	6.00	2.0	10.0	4.00	0.008	0.030		✓
mSMD375	6.0	100	3.75	7.00	2.0	12.0	4.00	0.007	0.028		✓
mSMD400	6.0	100	4.00	8.00	2.0	12.0	5.00	0.006	0.025		✓

Order Information

Packaging

mSMD		110		Tape & Reel Quantity	
Product name	Hold	Max		mSMD series 1500 pcs/reel	
Size 4532 mm / 1812 mils	Current	voltage			
SMD : surface mount device	1.10A				

Tape & reel packaging per EIA481-1

Recognition: mSMD010, 014, 020, 030, 050, 075, 110, 150, 160, 200, 260, UL Approved. E201504/E319079



mSMD010, 014, 020, 030, 050, 075, 100, 110, 125, 150, 160, 200, 260, 300, R 50481056
375, 400, :TÜV, Approved.



2015/863/EU



EN14582

