

Specification Status: Released

Maximum Electrical Rating

Voltage: 30V_{DC}

Current: 10A

Notes:

1. All terminations are tin/lead plated.
2. Devices can be wave soldered.
3. Drawing not to scale

Marking:



PART IDENTIFICATION

MANUFACTURER'S MARK

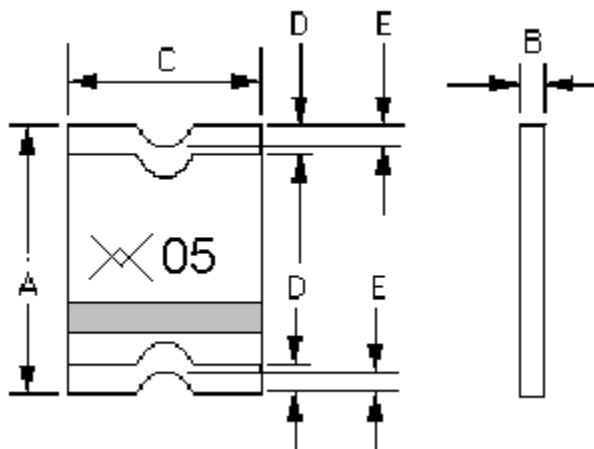


TABLE I. DIMENSIONS:

	A		B		C		D	E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MIN
mm:	3.00	3.43	0.50	0.85	2.35	2.80	0.25	0.20
in.*	(0.118)	(0.135)	(0.019)	(0.034)	(0.092)	(0.111)	(0.010)	(0.008)

*Rounded off approximation

TABLE II. PERFORMANCE RATINGS:

CURRENT RATINGS**						TIME TO TRIP **	RESISTANCE VALUES		TRIPPED-STATE POWER DISSIPATION**
AMPERES AT 0°C		AMPERES AT 20°C		AMPERES AT 60°C		SECONDS AT 20°C, 0.25A MAX	OHMS AT 20°C		WATTS AT 20°C, 30V MAX
HOLD	TRIP	HOLD	TRIP	HOLD	TRIP		MIN	MAX*	
0.060	0.180	0.050	0.150	0.030	0.090	1.5	3.6	50.0	1.0

*Maximum resistance is measured 1 hour after reflow.

** Values specified were determined using PCB's with 0.030"X1.5 ounce copper traces.

Reference Documents:

PS300, E. N. SMD1.0x

Precedence:

This specification takes precedence over documents referenced herein.

Effectivity:

Reference documents shall be the issue in effect on the date of invitation for bid.

CAUTION:

Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

Table S2-B. Thermal Derating for Lead-free Surface-mount Devices [Hold Current (A) at Ambient Temperature (°C)]
continued

Part Number	Maximum Ambient Temperature											
	-40°C	-20°C	0°C	20°C	25°C	40°C	50°C	60°C	70°C	80°C	85°C	125°C
nanoSMDC110F	1.64	1.46	1.30	1.10	1.06	0.92	0.83	0.80	0.65	0.56	0.52	—
nanoSMDC150F	2.20	1.99	1.77	1.55	1.50	1.34	1.23	1.10	1.01	0.90	0.84	—
Lead-free nanoSMDM Series Size 3216 mm/1206 mils												
nanoSMDM012F	0.19	0.17	0.15	0.13	0.125	0.11	0.10	0.09	0.08	0.07	0.07	—
nanoSMDM020F	0.30	0.27	0.24	0.21	0.20	0.18	0.16	0.14	0.12	0.11	0.10	—
nanoSMDM050F	0.76	0.68	0.59	0.52	0.50	0.44	0.40	0.35	0.32	0.28	0.26	—
nanoSMDM050F/13.2	0.76	0.68	0.59	0.52	0.50	0.44	0.40	0.35	0.32	0.28	0.26	—
nanoSMDM075F	1.11	1.00	0.85	0.78	0.75	0.67	0.61	0.52	0.50	0.44	0.42	—
nanoSMDM100F	1.49	1.34	1.15	1.04	1.00	0.89	0.81	0.70	0.66	0.58	0.55	—
Lead-free microSMD Series Size 3225 mm/1210 mils												
microSMD005F	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	—
microSMD010F	0.15	0.13	0.12	0.10	0.10	0.09	0.08	0.07	0.06	0.05	0.05	—
microSMD035F	0.51	0.46	0.40	0.35	0.34	0.30	0.27	0.24	0.22	0.19	0.18	—
microSMD050F	0.76	0.66	0.58	0.50	0.48	0.42	0.38	0.35	0.29	0.25	0.23	—
microSMD075F	1.10	0.97	0.86	0.75	0.72	0.64	0.58	0.55	0.47	0.42	0.39	—
microSMD110F	1.60	1.42	1.26	1.11	1.06	0.94	0.86	0.80	0.70	0.62	0.58	—
microSMD150F	2.30	2.02	1.76	1.50	1.43	1.24	1.11	1.00	0.85	0.72	0.65	—
Lead-free miniSMDC Series Size 4532 mm/1812 mils												
miniSMDC014F	0.23	0.20	0.17	0.14	0.13	0.11	0.10	0.09	0.07	0.06	0.05	—
miniSMDC020F	0.30	0.27	0.23	0.20	0.19	0.17	0.15	0.13	0.12	0.10	0.09	—
miniSMDC050F	0.59	0.57	0.55	0.50	0.48	0.45	0.43	0.35	0.30	0.25	0.23	—
miniSMDC075F	1.10	0.99	0.87	0.75	0.72	0.63	0.57	0.49	0.45	0.39	0.35	—
miniSMDC110F	1.60	1.45	1.28	1.10	1.07	0.92	0.83	0.71	0.66	0.57	0.52	—
miniSMDC110F/16	1.68	1.49	1.30	1.10	1.05	0.92	0.83	0.75	0.64	0.55	0.50	—
miniSMDC125F	2.00	1.69	1.47	1.25	1.17	1.03	0.92	0.90	0.69	0.58	0.53	—
miniSMDC125F/16	2.00	1.69	1.47	1.25	1.17	1.03	0.92	0.90	0.69	0.58	0.53	—
miniSMDC150F	2.30	2.05	1.77	1.50	1.44	1.23	1.09	0.95	0.82	0.68	0.61	—
miniSMDC160F	2.50	2.19	1.89	1.60	1.53	1.31	1.16	1.10	0.95	0.79	0.71	—
miniSMDC200F	2.60	2.44	2.22	2.00	1.96	1.78	1.67	1.50	1.45	1.34	1.29	—
miniSMDC260F	3.40	3.16	2.90	2.60	2.54	2.32	2.18	2.00	1.90	1.76	1.69	—
miniSMDC260F/12	3.40	3.16	3.00	2.60	2.54	2.32	2.18	2.00	1.90	1.76	1.69	—
Lead-free miniSMDM Series Size 4532 mm/1812 mils												
miniSMDM075F/24	1.11	1.00	0.85	0.78	0.75	0.67	0.61	0.52	0.50	0.44	0.42	—
miniSMDM110F	1.58	1.43	1.20	1.14	1.10	0.98	0.92	0.77	0.73	0.70	0.66	—
miniSMDM110F/16	1.61	1.46	1.25	1.14	1.10	0.98	0.90	0.78	0.74	0.66	0.62	—
miniSMDM200F	2.88	2.61	2.25	2.07	2.00	1.80	1.66	1.45	1.39	1.26	1.19	—
miniSMDM260F	3.70	3.36	2.90	2.68	2.60	2.35	2.18	1.90	1.84	1.67	1.59	—
Lead-free SMD Series Size 5050 mm/2018 mils												
SMD030F-2018	0.18	0.42	0.35	0.30	0.28	0.24	0.21	0.17	0.15	0.12	0.10	—
SMD100F-2018	1.59	1.43	1.20	1.10	1.03	0.94	0.85	0.72	0.69	0.61	0.57	—
SMD150F-2018	2.21	1.97	1.70	1.50	1.43	1.26	1.15	1.00	0.91	0.79	0.73	—
SMD200F-2018	2.81	2.54	2.27	2.00	1.93	1.73	1.59	1.46	1.32	1.19	1.12	—