

POLYSWITCH RESETTABLE DEVICES

Surface-Mount Devices

PolySwitch surface-mount devices are an effective circuit protection method for computer, consumer, multimedia, portable and automotive electronics applications.

In an effort to reduce the size and cost of surface-mount devices, Littelfuse PolySwitch team introduced the miniSMD product series in 1995. Subsequently, we developed the microSMD, nanoSMD, picoSMD and femtoSMD family of products. The femtoSMD series reduced the device size to a 1608mm (0603 mils) footprint, which is one-twelfth the size of the popular miniSMD series.

Recent additions to the PolySwitch surface-mount series include 1.1A picoSMD 1210mm (0805 mils) and 0.35A femtoSMD 1608mm (0603 mils) devices.



BENEFITS

- Smaller size helps save board space and cost
- Many product choices optimizes design flexibility
- Compatible with high-volume electronics assembly
- Assists in meeting regulatory requirements
- Higher voltage ratings allow use in new applications

FEATURES

- RoHS compliant
- Halogen free
(refers to: Br \geq 900ppm, Cl \geq 900ppm, Br+Cl \geq 1500ppm)
- Broadest range of resettable devices available in the industry
- Current ratings from 0.05 to 3.1A
- Voltage ratings from 6V computer and electronic applications to 60V telecom applications
- Agency recognition: UL, CSA, TÜV
- Small footprint
- Fast time-to-trip
- Low resistance

APPLICATIONS

- Computer
- Portable electronics
- Multimedia
- Game machines
- Telephony and broadband
- Mobile phones
- Automotive
- Industrial controls
- Battery

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Application Selection Table

- The table below lists PolySwitch surface-mount devices recommended for use in typical applications
- Specifications for the suggested PolySwitch surface-mount device part numbers can be found in this table
- Once a part has been selected, the user should evaluate and test each product for the intended application

			PolySwitch Resettable Devices - Key Selection Criteria		
Protection Application	Additional Comments	Overcurrent Overvoltage	Small Size	Low Resistance	Fast Time-to-trip (Temperature Protection)
AC Adapter Input Power	Use w/ Zener & Triac		SMD250F	SMD250F	SMD200F
Battery Pack Protection			nanoSMDC150F	miniSMDC260F	miniSMDE200F/16
Charger Protection			nanoSMDC050F	miniSMDC110F/16	nanoSMDC075F
CPU/IC Protection			nanoSMDC110F	nanoSMDC150F	nanoSMDC075F
Data Acquisition/Sensor			microSMD005F	—	microSMD005F
DC Input/Output Power	≤6V		nanoSMDC075F	nanoSMDC150F	nanoSMDC050F/13.2
	≤12V		miniSMDC075F	miniSMDC110F/16	miniSMDC075F
DDC			nanoSMDC075F	nanoSMDC110F	nanoSMDC050F/13.2
Device Bay System	DB12, DB20		miniSMDC200F	miniSMDC260F	miniSMDC200F
	DB32		miniSMDC260F	SMD300F	miniSMDC200F
Ethernet/LAN			nanoSMDC050F/13.2	miniSMDC110F/16	nanoSMDC075F
Fan			microSMD035F	microSMD050F	microSMD035F
HDMI			picoSMDC035S	picoSMDC035S	picoSMDC035S
IEEE 802.3af	VoIP		decaSMDC050F/60	decaSMDC050F/60	decaSMDC050F/60
IEEE-1394	Power Provider		SMD100F/33	SMD185F	SMD100F/33
	Alt. Power Provider		SMD185F	SMD185F	SMD150F/33
	Self-Powered		SMD185F	SMD185F	SMD150F/33
LCD Inverter			nanoSMDC050F/13.2	miniSMDC110F/16	nanoSMDC075F
LCD Screen Power			nanoSMDC050F/13.2	nanoSMDC050F/13.2	microSMD035F
LNB (Low Noise Block)			SMD075F	SMD075F	SMD050F
Motor	≤6V		nanoSMDC110F	nanoSMDC150F	microSMD075F
	≤13.2V		miniSMDC075F	miniSMDC110F/16	miniSMDC075F
PS/2 Mouse/Keyboard			nanoSMDC075F	nanoSMDC110F	nanoSMDC050F/13.2
Signal - Data Communication	≤6V		nanoSMDC075F	nanoSMDC075F	nanoSMDC075F
	≤13.2V		miniSMDC050F	miniSMDC075F	miniSMDC020F
	≤30V		SMD030F-2018	SMD075F	SMD050F
SCSI			nanoSMDC110F	nanoSMDC150F	nanoSMDC075F
SIM/Smart Card Reader			femtoSMDC010F	femtoSMDC010F	femtoSMDC005F
Telecom - Modem	Digital Line	OC	miniSMDC014F	miniSMDC014F	miniSMDC014F
Telecom - PBX	Subscriber	OC	miniSMDC014F	miniSMDC014F	miniSMDC014F
Temperature Sensor	CPU		nanoSMDC050F/13.2	nanoSMDC075F	nanoSMDC050F/13.2
USB	Individual Port		nanoSMDC075F	nanoSMDC110F	nanoSMDC050F/13.2
	2 Port Ganged		nanoSMDC150F	miniSMDC150F	miniSMDC125F
	3 Port Ganged		miniSMDC200F	miniSMDC200F	miniSMDC200F

Note: This list is not exhaustive. Littelfuse welcomes our customers' input for additional application ideas for PolySwitch resettable devices.

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Table S1 — Product Series: Size, Current Rating, Voltage Rating/Maximum Resistance

	femtoSMD	picoSMD	nanoSMD	microSMD	miniSMD	midSMD
Size mm	1608	2012	3216	3225	4532	5050
(mils)	(0603)	(0805)	(1206)	(1210)	(1812)	(2018)
Hold Current (A)						
0.050	15V _{DC} /30.00Ω	—	—	30V _{DC} /50Ω	—	—
0.080	12V _{DC} /14.00Ω	—	—	—	—	—
0.100	12V _{DC} /8.00Ω	15V _{DC} /11.00Ω	60V _{DC} /15.00Ω	30V _{DC} /15Ω	60V _{DC} /12.70Ω	—
	—	—	—	—	—	—
0.120	9V _{DC} /5.80Ω	15V _{DC} /9.00Ω	48V _{DC} /6.50Ω	—	—	—
0.140	—	—	—	—	60V _{DC} /6.00Ω	—
0.160	9V _{DC} /4.20Ω	—	48V _{DC} /5.00Ω	—	—	—
0.200	9V _{DC} /3.00Ω	9V _{DC} /3.20Ω	24V _{DC} /3.10Ω	—	30V _{DC} /3.30Ω	—
0.250	—	—	16V _{DC} /2.10Ω	—	—	—
0.300	—	—	—	—	30V _{DC} /1.75Ω	60V _{DC} /2.30Ω
0.350	6V _{DC} /1.00Ω	6V _{DC} /1.40Ω	16V _{DC} /1.35Ω	6V _{DC} /1.30Ω	—	—
0.500	—	6V _{DC} /0.80Ω	13.2V _{DC} /0.75Ω	13.2V _{DC} /0.90Ω	24V _{DC} /1.00Ω	—
0.750	—	6V _{DC} /0.35Ω*	6V _{DC} /0.30Ω	6V _{DC} /0.40Ω	13.2V _{DC} /0.45Ω	—
	—	—	—	—	24V _{DC} /0.29Ω	—
	—	—	—	—	33V _{DC} /0.39Ω	—
1.000	—	—	—	—	—	15V _{DC} /0.40Ω
	—	—	—	—	—	—
1.100	—	6V _{DC} /0.17Ω*	6V _{DC} /0.20Ω	6V _{DC} /0.21Ω	8V _{DC} /0.21Ω	—
	—	—	—	—	16V _{DC} /0.18Ω	—
	—	—	—	—	24V _{DC} /0.18Ω	—
1.200	—	—	—	—	—	—
1.250	—	—	—	—	6V _{DC} /0.14Ω	—
	—	—	—	—	16V _{DC} /0.14Ω	—
1.500	—	—	6V _{DC} /0.11Ω	6V _{DC} /0.11Ω	6V _{DC} /0.11Ω	15V _{DC} /0.18Ω
	—	—	—	—	12V _{DC} /0.11Ω	—
	—	—	—	—	16V _{DC} /0.11Ω	—
	—	—	—	—	24V _{DC} /0.12Ω	—
1.600	—	—	—	—	9V _{DC} /0.10Ω	—
1.750	—	—	—	6V _{DC} /0.08Ω	—	—
1.850	—	—	—	—	—	—
2.000	—	—	6V _{DC} /0.072Ω	6V _{DC} /0.06Ω	8V _{DC} /0.07Ω	6V _{DC} /0.10Ω
	—	—	—	—	16V _{DC} /0.085Ω	—
2.500	—	—	—	—	—	—
2.600	—	—	—	—	6V _{DC} /0.043Ω	—
	—	—	—	—	12V _{DC} /0.047Ω	—
	—	—	—	—	13.2V _{DC} /0.050Ω	—
	—	—	—	—	16V _{DC} /0.050Ω	—
3.000	—	—	—	—	6V _{DC} /0.036Ω	—
	—	—	—	—	—	—
3.100	—	—	—	—	—	—

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Table S1 — Product Series: Size, Current Rating, Voltage Rating/Maximum Resistance (Cont'd)

	SMDC	SMD	SMD2	decaSMD	High Temperature SMD
Size mm	7555	7555	8763	5050	3216, 3225 & 7555
(mils)	(2920)	(2920)	(3425)	(2018)	(1206), (1210) & (2920)
Hold Current (A)					
0.050	—	—	—	—	—
0.080	—	—	—	—	—
0.100	—	—	—	—	30V _{DC} /10.0Ω
	—	—	—	—	30V _{DC} /11.0Ω
0.120	—	—	—	—	—
0.140	—	—	—	—	—
0.160	—	—	—	—	—
0.200	—	—	—	—	—
0.250	—	—	—	—	—
0.300	—	60V _{DC} /4.80Ω	—	—	24V _{DC} /1.95Ω
0.350	—	—	—	—	—
0.500	—	60V _{DC} /1.40Ω	—	60V _{DC} /1.10Ω	6V _{DC} /0.90Ω
0.750	—	30V _{DC} /1.00Ω	—	—	6V _{DC} /0.36Ω
	—	60V _{DC} /1.00Ω	—	—	—
	—	—	—	—	—
1.000	—	30V _{DC} /0.48Ω	—	—	—
	—	33V _{DC} /0.41Ω	—	—	—
1.100	—	—	—	—	—
	—	—	—	—	—
	—	—	—	—	—
1.200	—	16V _{DC} /0.34Ω	—	—	—
1.250	33V _{DC} /0.25Ω	15V _{DC} /0.25Ω	—	—	24V _{DC} /0.24Ω
	—	—	—	—	—
1.500	—	33V _{DC} /0.23Ω	15V _{DC} /0.25Ω	—	—
	—	—	33V _{DC} /0.23Ω	—	—
	—	—	—	—	—
	—	—	—	—	—
1.600	—	—	16V _{DC} /0.15Ω	—	—
1.750	—	—	—	—	—
1.850	33V _{DC} /0.15Ω	—	33V _{DC} /0.165Ω	—	—
2.000	—	24V _{DC} /0.125Ω	15V _{DC} /0.125Ω	—	—
	—	—	—	—	—
2.500	—	15V _{DC} /0.085Ω	15V _{DC} /0.85Ω	—	—
2.600	—	6V _{DC} /0.075Ω	—	—	—
	—	—	—	—	—
	—	—	—	—	—
3.000	24V _{DC} /0.072Ω	6V _{DC} /0.048Ω	—	—	—
	—	15V _{DC} /0.05Ω	—	—	—
3.100	18V _{DC} /0.036Ω	—	—	—	—

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Table S2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)]

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
femtoSMDC Series; Size 1608mm/0603mils												
femtoSMDC005F	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	—
femtoSMDC008F	0.13	0.11	0.10	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.04	—
femtoSMDC010F	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	—
femtoSMDC012F	0.18	0.16	0.14	0.12	0.12	0.11	0.10	0.08	0.08	0.07	0.06	—
femtoSMDC016F	0.25	0.22	0.18	0.17	0.16	0.14	0.12	0.11	0.10	0.08	0.07	—
femtoSMDC020F	0.30	0.27	0.24	0.20	0.20	0.17	0.16	0.14	0.12	0.11	0.10	—
femtoSMDC035F	0.53	0.47	0.41	0.36	0.35	0.30	0.27	0.25	0.22	0.19	0.17	—
picoSMDC Series; Size 2012mm/0805mils												
picoSMDC010S	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	—
picoSMDC012S	0.20	0.17	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05	—
picoSMDC020S	0.30	0.27	0.24	0.21	0.20	0.18	0.16	0.15	0.13	0.12	0.11	—
picoSMDC035S	0.55	0.49	0.44	0.37	0.35	0.31	0.28	0.26	0.23	0.20	0.18	—
picoSMDC050S	0.70	0.62	0.55	0.55	0.50	0.43	0.38	0.33	0.30	0.28	0.26	—
picoSMDC075S	1.13	1.01	0.90	0.78	0.75	0.67	0.61	0.55	0.49	0.43	0.40	—
picoSMDC110S	1.64	1.47	1.30	1.14	1.10	0.97	0.89	0.80	0.72	0.64	0.59	—
nanoSMDC Series; Size 3216mm/1206mils												
nanoSMDC010F	0.15	0.14	0.12	0.10	0.10	0.09	0.08	0.07	0.06	0.05	0.05	—
nanoSMDC012F	0.20	0.17	0.15	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	—
nanoSMDC016F	0.21	0.20	0.18	0.16	0.16	0.14	0.13	0.12	0.11	0.10	0.09	—
nanoSMDC020F	0.34	0.30	0.26	0.22	0.20	0.17	0.15	0.13	0.11	0.09	0.08	—
nanoSMDC025F	0.38	0.33	0.30	0.26	0.25	0.22	0.20	0.19	0.16	0.13	0.11	—
nanoSMDC035F	0.58	0.51	0.44	0.38	0.35	0.31	0.28	0.24	0.21	0.18	0.16	—
nanoSMDC050F/13.2	0.78	0.69	0.61	0.52	0.50	0.44	0.39	0.35	0.30	0.25	0.24	—
nanoSMDC075F	1.15	1.04	0.92	0.78	0.75	0.69	0.63	0.58	0.51	0.46	0.43	—
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	—
nanoSMDC200F	2.92	2.64	2.35	2.07	2.00	1.79	1.64	1.50	1.36	1.22	1.15	—
microSMD Series; Size 3225mm/1210mils												
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	0.06	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	1.10	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	—
microSMD175F	2.80	2.45	2.10	1.75	1.70	1.55	1.45	1.35	1.25	1.15	1.10	—
microSMD200F	2.60	2.44	2.35	2.00	1.96	1.78	1.67	1.50	1.45	1.15	1.10	—
miniSMDC Series; Size 4532mm/1812mils												
miniSMDC010F	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	—
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	—
miniSMDC030F	0.49	0.44	0.39	0.32	0.30	0.27	0.24	0.22	0.18	0.16	0.14	—
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	—
miniSMDC075F/24	1.50	1.25	1.00	0.75	0.73	0.65	0.60	0.55	0.50	0.45	0.43	—

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Table S2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)] (Cont'd)

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
miniSMDC Series; Size 4532mm/1812mils												
miniSMDC075F/33	1.09	0.98	0.87	0.77	0.75	0.66	0.61	0.55	0.50	0.45	0.42	—
miniSMDC100F	1.60	1.45	1.28	1.10	1.07	0.92	0.83	0.71	0.66	0.57	0.52	—
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	—
miniSMDC110F/24	2.00	1.70	1.40	1.10	1.06	0.95	0.88	0.80	0.73	0.65	0.61	—
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	—
miniSMDC150F/12	2.40	2.10	1.80	1.50	1.44	1.25	1.13	1.00	0.88	0.75	0.69	—
miniSMDC150F/16	2.40	2.10	1.80	1.50	1.44	1.25	1.13	1.00	0.88	0.75	0.69	—
miniSMDC150F/24	2.10	1.90	1.70	1.50	1.44	1.25	1.13	1.00	0.88	0.75	0.69	—
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	—
miniSMDC200F/16	3.07	2.74	2.40	2.07	2.00	1.74	1.57	1.40	1.24	1.07	0.99	—
miniSMDC260F	3.40	3.16	2.80	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	—
miniSMDC260F/13.2	3.40	3.16	3.00	2.60	2.54	2.32	2.18	2.00	1.90	1.76	1.69	—
miniSMDC260F/16	3.50	3.20	3.00	2.60	2.53	2.30	2.15	2.00	1.85	1.70	1.63	—
miniSMDC300F	4.13	3.75	3.33	3.02	3.00	2.70	2.54	2.35	2.22	2.06	1.98	—
midSMD Series; Size 5050mm/2018mils												
SMD030F-2018	0.48	0.42	0.35	0.30	0.28	0.24	0.21	0.17	0.15	0.12	0.10	—
decaSMDC050F/60	1.00	0.85	0.70	0.55	0.53	0.45	0.40	0.35	0.30	0.25	0.23	—
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	—
SMDC Series; Size 7555mm/2920mils												
SMDC125F/33	2.02	1.78	1.55	1.31	1.25	1.08	0.96	0.84	0.72	0.60	0.54	—
SMDC185F/33	2.83	2.50	2.20	1.85	1.74	1.53	1.37	1.22	1.04	0.88	0.80	—
SMDC300F/24	4.70	4.19	3.70	3.17	3.00	2.66	2.41	2.20	1.90	1.65	1.50	—
SMDC310F/18	4.50	4.06	3.78	3.19	3.10	2.75	2.54	2.32	2.10	1.88	1.76	—
SMD Series; Size 7555mm/2920mils												
SMD030F	0.44	0.39	0.32	0.30	0.28	0.26	0.23	0.19	0.18	0.17	0.15	—
SMD050F	0.73	0.65	0.55	0.50	0.47	0.43	0.39	0.33	0.31	0.28	0.26	—
SMD075F	1.11	0.99	0.84	0.75	0.71	0.63	0.57	0.49	0.45	0.39	0.36	—
SMD075F/60	1.11	0.99	0.84	0.75	0.71	0.63	0.57	0.49	0.45	0.39	0.36	—
SMD100F	1.59	1.43	1.20	1.10	1.03	0.94	0.85	0.72	0.69	0.61	0.57	—
SMD100F/33	1.48	1.35	1.20	1.10	1.06	0.98	0.91	0.83	0.79	0.73	0.69	—
SMDH120	2.34	1.96	1.58	1.20	1.15	1.02	0.92	0.83	0.74	0.65	0.60	0.26
SMD125F	1.89	1.68	1.50	1.25	1.21	1.04	0.93	0.85	0.71	0.61	0.55	—
SMD150F/33-2920	2.27	2.01	1.76	1.50	1.44	1.25	1.12	0.99	0.86	0.74	0.67	—
SMD200F/24-2920	2.90	2.60	2.30	2.00	1.93	1.70	1.55	1.40	1.25	1.10	1.03	—
SMD250F/15-2920	3.65	3.25	2.80	2.50	2.33	2.02	1.82	1.60	1.41	1.20	1.11	—
SMD260F	3.82	3.41	2.90	2.60	2.45	2.19	1.99	1.70	1.58	1.38	1.28	—
SMD300F	4.13	3.75	3.30	3.00	2.87	2.62	2.43	2.25	2.00	1.87	1.78	—
SMD300F/15	4.20	3.80	3.30	3.00	2.90	2.62	2.43	2.25	2.00	1.87	1.78	—

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Table S2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)] (Cont'd)

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
SMD2 Series; Size 8763mm/3425mils												
SMD150F	2.30	2.04	1.80	1.50	1.45	1.23	1.10	0.99	0.83	0.70	0.63	—
SMD150F/33	2.30	2.04	1.80	1.50	1.45	1.23	1.10	0.99	0.83	0.70	0.63	—
SMDH160	2.14	1.96	1.78	1.60	1.56	1.42	1.33	1.24	1.15	1.06	1.02	0.44
SMD185F	2.54	2.29	2.20	1.85	1.80	1.55	1.43	1.31	1.19	1.06	1.00	—
SMD200F	3.01	2.67	2.30	2.00	1.90	1.66	1.50	1.30	1.16	0.99	0.91	—
SMD250F	3.72	3.31	2.80	2.50	2.35	2.09	1.89	1.60	1.48	1.28	1.18	—
High Temperature SMD Series; Size 3216mm/1206mils, 3225mm/1210mils & 7555mm/2920mils												
nanoSMDCH010F	0.18	0.16	0.15	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.03
nanoSMDCH030F/24	0.45	0.40	0.35	0.31	0.30	0.25	0.22	0.20	0.18	0.15	0.13	0.05
nanoSMDH075F	1.07	0.98	0.90	0.78	0.75	0.70	0.66	0.61	0.56	0.52	0.50	0.30
microSMDCH010F	0.18	0.16	0.15	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.02
microSMDCH050F	0.85	0.78	0.75	0.54	0.50	0.48	0.45	0.42	0.38	0.35	0.35	0.18
SMDCH125F/24	1.80	1.65	1.50	1.30	1.25	1.15	1.08	1.00	0.90	0.82	0.80	0.28

Figure S1 — Thermal Derating Curve

A = femtoSMD / picoSMD / nanoSMD / microSMD / miniSMD decaSMD / SMDC and SMD

B = SMDH120 / SMDH160 and High Temperature SMD



PolySwitch Resettable Devices

Surface-Mount Devices

Table S3 — Electrical Characteristics for Surface-Mount Devices at Room Temperature

Part Number	I_H	I_T	V_{MAX}	I_{MAX}	$P_{D MAX}$	Max Time-to-Trip		R_{MIN}	R_{1MAX}	Figure for Dimensions
	(A)	(A)	(V _{DC})	(A)	(W)	(A)	(S)	(Ω)	(Ω)	
femtoSMDC Series; Size 1608mm/0603mils										
femtoSMDC005F	0.05	0.15	15	40	0.50	0.50	0.10	3.80	30.00	S2
femtoSMDC008F	0.08	0.20	12	40	0.50	0.60	0.10	2.80	14.00	S2
femtoSMDC010F	0.10	0.25	12	40	0.50	0.70	0.10	1.70	8.00	S2
femtoSMDC012F	0.12	0.30	9	40	0.50	0.80	0.10	1.10	5.80	S2
femtoSMDC016F	0.16	0.40	9	40	0.50	1.00	0.10	1.00	4.20	S2
femtoSMDC020F	0.20	0.45	9	40	0.50	2.00	0.10	0.70	3.00	S2
femtoSMDC035F	0.35	0.70	6	40	0.50	3.50	0.10	0.28	1.00	S2
picoSMDC Series; Size 2012mm/0805mils										
picoSMDC010S	0.10	0.30	15	100	0.50	0.50	0.60	1.50	11.00	S2
picoSMDC012S	0.12	0.30	15	100	0.50	1.00	0.10	1.50	9.00	S2
picoSMDC020S	0.20	0.47	9	100	0.50	2.00	0.10	0.75	3.20	S2
picoSMDC035S	0.35	0.75	6	100	0.50	1.75	0.20	0.35	1.40	S2
picoSMDC050S	0.50	1.00	6	100	0.50	8.00	0.10	0.15	0.80	S2
picoSMDC075S	0.75	1.50	6	40	0.70	8.00	0.20	0.10	0.35	S2
picoSMDC110S	1.10	2.20	6	40	0.80	8.00	0.20	0.05	0.17	S2
nanoSMDC Series; Size 3216mm/1206mils										
nanoSMDC010F	0.10	0.25	60	10	0.80	0.50	1.00	1.60	15.00	S2
nanoSMDC012F	0.12	0.39	48	10	0.50	1.00	0.20	1.40	6.50	S2
nanoSMDC016F	0.16	0.45	48	10	0.50	1.00	0.30	1.10	5.00	S2
nanoSMDC020F	0.20	0.42	24	100	0.60	8.00	0.10	0.65	3.10	S2
nanoSMDC025F	0.25	0.58	16	100	0.60	8.00	0.10	0.40	2.10	S2
nanoSMDC035F	0.35	0.75	16	20	0.60	3.50	0.10	0.45	1.35	S2
nanoSMDC050F/13.2	0.50	1.10	13.2	100	0.80	8.00	0.10	0.20	0.75	S2
nanoSMDC075F	0.75	1.50	6	100	0.80	8.00	0.10	0.09	0.30	S2
nanoSMDC110F	1.10	2.20	6	100	0.80	8.00	0.10	0.07	0.20	S2
nanoSMDC150F	1.50	3.00	6	100	0.80	8.00	0.30	0.04	0.11	S2
nanoSMDC200F	2.00	4.00	6	100	1.00	8.00	1.50	0.02	0.072	S2
microSMD Series; Size 3225mm/1210mils										
microSMD005F	0.05	0.15	30	10	1.00	0.25	1.50	3.60	50.00	S2
microSMD010F	0.10	0.25	30	10	0.80	0.50	1.00	2.10	15.00	S2
microSMD035F	0.35	0.75	6	40	0.80	8.00	0.20	0.32	1.30	S2
microSMD050F	0.50	1.00	13.2	40	0.80	8.00	0.05	0.25	0.90	S2
microSMD075F	0.75	1.50	6	40	0.80	8.00	0.10	0.11	0.40	S2
microSMD110F	1.10	2.20	6	40	0.80	8.00	0.20	0.07	0.21	S2
microSMD150F	1.50	3.00	6	40	0.80	8.00	1.00	0.04	0.11	S2
microSMD175F	1.75	3.50	6	40	0.80	8.00	0.80	0.025	0.08	S2
microSMD200F	2.00	4.00	6	100	0.80	8.00	2.50	0.020	0.06	S2
miniSMDC Series; Size 4532mm/1812mils										
miniSMDC010F	0.10	0.30	60	40	0.75	0.50	5.00	0.70	12.70	S2
miniSMDC014F	0.14	0.28	60	10	0.75	8.00	0.008	1.50	6.00	S2
miniSMDC020F	0.20	0.40	30	10	0.80	8.00	0.02	0.60	3.30	S2
miniSMDC030F	0.30	0.60	30	40	0.80	8.00	0.10	0.20	1.75	S2
miniSMDC050F	0.50	1.00	24	100	0.80	8.00	0.15	0.15	1.00	S2
miniSMDC075F	0.75	1.50	13.2	100	1.00	8.00	0.20	0.11	0.45	S2
miniSMDC075F/24	0.75	1.50	24	40	0.80	8.00	0.30	0.09	0.29	S2

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Table S3 — Electrical Characteristics for Surface-Mount Devices at Room Temperature (Cont'd)

Part Number	I _H (A)	I _T (A)	V _{MAX} (V _{DC})	I _{MAX} (A)	P _{D MAX} (W)	Max Time-to-Trip		R _{MIN} (Ω)	R _{1MAX} (Ω)	Figure for Dimensions
						(A)	(S)			
miniSMDC Series; Size 4532mm/1812mils										
miniSMDC075F/33	0.75	1.60	33	100	1.00	8.00	1.00	0.11	0.39	S2
miniSMDC100F	1.10	2.20	8	100	1.20	8.00	0.30	0.04	0.21	S2
miniSMDC110F	1.10	2.20	8	100	1.20	8.00	0.30	0.04	0.21	S2
miniSMDC110F/16	1.10	2.20	16	100	0.80	8.00	0.30	0.06	0.18	S2
miniSMDC110F/24	1.10	2.20	24	20	0.80	8.00	0.50	0.06	0.18	S2
miniSMDC125F	1.25	2.50	6	100	0.80	8.00	0.40	0.05	0.14	S2
miniSMDC125F/16	1.25	2.50	16	100	0.80	8.00	0.40	0.05	0.14	S2
miniSMDC150F	1.50	3.00	6	100	0.80	8.00	0.50	0.04	0.11	S2
miniSMDC150F/12	1.50	2.80	12	100	0.80	8.00	0.50	0.04	0.11	S2
miniSMDC150F/16	1.50	2.80	16	100	0.80	8.00	0.50	0.04	0.11	S2
miniSMDC150F/24	1.50	3.00	24	20	1.00	8.00	1.50	0.04	0.12	S2
miniSMDC160F	1.60	3.20	9	100	0.80	8.00	1.00	0.03	0.10	S2
miniSMDC200F	2.00	4.00	8	100	1.00	8.00	5.00	0.020	0.070	S2
miniSMDC200F/16	2.00	4.00	16	40	1.20	8.00	5.00	0.020	0.085	S2
miniSMDC260F	2.60	5.00	6	100	1.00	8.00	5.00	0.015	0.043	S2
miniSMDC260F/12	2.60	5.00	12	100	1.00	8.00	5.00	0.015	0.047	S2
miniSMDC260F/13.2	2.60	5.00	13.2	100	1.20	8.00	5.00	0.015	0.050	S2
miniSMDC260F/16	2.60	5.00	16	100	1.20	8.00	5.00	0.015	0.050	S2
miniSMDC300F	3.00	6.00	6	100	1.00	8.00	5.00	0.011	0.036	S2
midSMD Series; Size 5050mm/2018mils										
SMD030F-2018	0.30	0.80	60	20	1.50	1.50	1.50	0.500	2.30	S3
decaSMDC050F/60	0.55	1.10	60	10	1.00	8.00	0.10	0.200	1.10	S2
SMD100F-2018	1.10	2.20	15	40	1.40	8.00	0.50	0.100	0.40	S3
SMD150F-2018	1.50	3.00	15	40	1.80	8.00	1.00	0.070	0.18	S3
SMD200F-2018	2.00	4.20	6	40	1.50	8.00	3.00	0.048	0.10	S3
SMDC Series; Size 7555mm/2920mils										
SMDC125F/33	1.25	2.50	33	40	1.50	8.00	2.00	0.040	0.250	S2
SMDC185F/33	1.85	3.70	33	40	1.70	8.00	2.50	0.050	0.150	S2
SMDC300F/24	3.00	6.00	24	40	1.70	8.00	5.00	0.015	0.072	S2
SMDC310F/18	3.10	6.00	18	50	1.50	8.00	25.00	0.013	0.036	S2
SMD Series; Size 7555mm/2920mils										
SMD030F	0.30	0.60	60	10	1.70	1.50	3.00	1.200	4.800	S4
SMD050F	0.50	1.00	60	10	1.70	2.50	4.00	0.350	1.400	S4
SMD075F	0.75	1.50	30	40	1.70	8.00	0.30	0.350	1.000	S4
SMD075F/60	0.75	1.50	60	10	1.70	8.00	0.30	0.350	1.000	S4
SMD100F	1.10	2.20	30	40	1.70	8.00	0.50	0.120	0.480	S4
SMD100F/33	1.10	2.20	33	40	1.70	8.00	0.50	0.120	0.410	S4
SMDH120	1.20	2.30	16	50	2.00	8.00	2.00	0.150	0.340	S4
SMD125F	1.25	2.50	15	40	1.70	8.00	2.00	0.070	0.250	S4
SMD150F/33-2920	1.50	3.00	33	40	1.50	8.00	5.00	0.080	0.230	S4
SMD200F/24-2920	2.00	4.00	24	40	1.50	8.00	5.00	0.050	0.125	S4
SMD250F/15-2920	2.50	5.00	15	40	1.50	8.00	10.00	0.035	0.085	S4
SMD260F	2.60	5.20	6	40	1.70	8.00	20.00	0.025	0.075	S4
SMD300F	3.00	6.00	6	40	1.50	8.00	35.00	0.015	0.048	S4
SMD300F/15	3.00	6.00	15	40	1.50	8.00	35.00	0.015	0.050	S4

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Surface-Mount Devices

Table S3 — Electrical Characteristics for Surface-Mount Devices at Room Temperature (Cont'd)

Part Number	I_H (A)	I_T (A)	V_{MAX} (V_{DC})	I_{MAX} (A)	$P_{D MAX}$ (W)	Max Time-to-Trip		R_{MIN} (Ω)	R_{1MAX} (Ω)	Figure for Dimensions
						(A)	(S)			
SMD2 Devices; Size 8763mm/3425mils										
SMD150F	1.50	3.00	15	40	1.90	8.00	5.00	0.060	0.250	S4
SMD150F/33	1.50	3.00	33	40	1.90	8.00	5.00	0.080	0.230	S4
SMDH160	1.60	3.20	16	70	2.20	8.00	15.00	0.050	0.150	S4
SMD185F	1.85	3.60	33	40	1.50	8.00	5.00	0.065	0.165	S4
SMD200F	2.00	4.00	15	40	1.90	8.00	12.00	0.050	0.125	S4
SMD250F	2.50	5.00	15	40	1.90	8.00	25.00	0.035	0.085	S4
High Temperature SMD Series; Size 3216mm/1206mils, 3225mm/1210mils & 7555mm/2920mils										
nanoSMDCH010F	0.10	0.35	30	10	0.80	1.00	0.10	1.10	10.00	S2
nanoSMDCH030F/24	0.30	0.82	24	10	1.00	8.00	0.10	0.50	1.95	S2
nanoSMDH075F	0.75	2.00	6	10	1.10	8.00	0.10	0.10	0.36	S5
microSMDCH010F	0.10	0.35	30	10	0.90	1.00	0.10	1.20	11.00	S2
microSMDCH050F	0.50	1.50	6	10	1.10	8.00	0.05	0.19	0.90	S2
SMDCH125F/24	1.25	2.50	24	20	2.00	8.00	0.50	0.08	0.24	S2

Figures S2-S5 — Dimension Figures



Table S4 — Dimensions in Millimeters (Inches)

Part Number	A		B		C		D		E		F		G		H	Figure
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
femtoSMDC Series; Size 1608mm/0603mils																
femtoSMDC005F	1.40 (0.055)	1.80 (0.071)	0.45 (0.017)	0.85 (0.033)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
femtoSMDC008F	1.40 (0.055)	1.80 (0.071)	0.45 (0.017)	0.85 (0.033)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
femtoSMDC010F	1.40 (0.055)	1.80 (0.071)	0.45 (0.017)	0.85 (0.033)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2

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Surface-Mount Devices

Table S4 — Dimensions in Millimeters (Inches)

(Cont'd)

Part Number	A		B		C		D		E		F		G		H	Figure
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
femtoSMDC Series; Size 1608mm/0603mils																
femtoSMDC012F	1.40 (0.055)	1.80 (0.071)	0.35 (0.013)	0.75 (0.030)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
femtoSMDC016F	1.40 (0.055)	1.80 (0.071)	0.35 (0.013)	0.75 (0.030)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
femtoSMDC020F	1.40 (0.055)	1.80 (0.071)	0.35 (0.013)	0.75 (0.030)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
femtoSMDC035F	1.40 (0.055)	1.80 (0.071)	0.55 (0.021)	0.95 (0.037)	0.60 (0.023)	1.00 (0.039)	0.10 (0.004)	0.50 (0.020)	0.075 (0.003)	—	—	—	—	—	—	S2
picoSMDC Series; Size 2012mm/0805mils																
picoSMDC010S	2.00 (0.079)	2.20 (0.087)	0.60 (0.023)	1.00 (0.040)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC012S	2.00 (0.079)	2.20 (0.087)	0.44 (0.017)	0.68 (0.027)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC020S	2.00 (0.079)	2.20 (0.087)	0.44 (0.017)	0.68 (0.027)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC035S	2.00 (0.079)	2.20 (0.087)	0.44 (0.017)	0.68 (0.027)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC050S	2.00 (0.079)	2.20 (0.087)	0.63 (0.025)	0.93 (0.036)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC075S	2.00 (0.079)	2.20 (0.087)	0.63 (0.025)	0.93 (0.036)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
picoSMDC110S	2.00 (0.079)	2.20 (0.087)	0.80 (0.031)	1.20 (0.047)	1.30 (0.051)	1.50 (0.059)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC Series; Size 3216mm/1206mils																
nanoSMDC010F	3.00 (0.118)	3.40 (0.134)	0.62 (0.024)	1.00 (0.039)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC012F	3.00 (0.118)	3.40 (0.134)	0.62 (0.024)	1.00 (0.039)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC016F	3.00 (0.118)	3.40 (0.134)	0.62 (0.024)	1.00 (0.039)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC020F	3.00 (0.118)	3.40 (0.134)	0.58 (0.023)	0.82 (0.032)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC025F	3.00 (0.118)	3.40 (0.134)	0.58 (0.023)	0.82 (0.032)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC035F	3.00 (0.118)	3.40 (0.134)	0.58 (0.023)	0.82 (0.032)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC050F/13.2	3.00 (0.118)	3.40 (0.134)	0.50 (0.019)	0.74 (0.029)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC075F	3.00 (0.118)	3.40 (0.134)	0.44 (0.017)	0.68 (0.027)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC110F	3.00 (0.118)	3.40 (0.134)	0.28 (0.011)	0.67 (0.026)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC150F	3.00 (0.118)	3.40 (0.134)	0.55 (0.022)	0.89 (0.035)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDC200F	3.00 (0.118)	3.40 (0.134)	0.83 (0.033)	1.10 (0.043)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2

PolySwitch Resettable Devices

Surface-Mount Devices

Table S4 — Dimensions in Millimeters (Inches)

(Cont'd)

Part Number	A		B		C		D		E		F		G		H	Figure
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
microSMD Series; Size 3225mm/1210mils																
microSMD005F	3.0 (0.118)	3.43 (0.135)	0.50 (0.019)	0.85 (0.034)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD010F	3.0 (0.118)	3.43 (0.135)	0.50 (0.019)	0.85 (0.034)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD035F	3.0 (0.118)	3.43 (0.135)	0.38 (0.015)	0.62 (0.025)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD050F	3.0 (0.118)	3.43 (0.135)	0.38 (0.015)	0.62 (0.025)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD075F	3.0 (0.118)	3.43 (0.135)	0.38 (0.015)	0.62 (0.025)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD110F	3.0 (0.118)	3.43 (0.135)	0.28 (0.011)	0.48 (0.019)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD150F	3.0 (0.118)	3.43 (0.135)	0.51 (0.020)	1.22 (0.048)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD175F	3.0 (0.118)	3.43 (0.135)	0.40 (0.016)	0.76 (0.030)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMD200F	3.0 (0.118)	3.43 (0.135)	0.79 (0.031)	1.17 (0.046)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
miniSMDC Series; Size 4532mm/1812mils																
miniSMDC010F	4.37 (0.172)	4.73 (0.186)	0.635 (0.025)	0.89 (0.035)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC014F	4.37 (0.172)	4.73 (0.186)	0.635 (0.025)	0.89 (0.035)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC020F	4.37 (0.172)	4.73 (0.186)	0.635 (0.025)	0.89 (0.035)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC030F	4.37 (0.172)	4.73 (0.186)	0.635 (0.025)	0.89 (0.035)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC050F	4.37 (0.172)	4.73 (0.186)	0.38 (0.015)	0.62 (0.025)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC075F	4.37 (0.172)	4.73 (0.186)	0.38 (0.015)	0.62 (0.025)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC075F/24	4.37 (0.172)	4.83 (0.190)	0.81 (0.032)	1.46 (0.057)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC075F/33	4.37 (0.172)	4.83 (0.190)	0.94 (0.037)	1.46 (0.057)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC100F	4.37 (0.172)	4.73 (0.186)	0.38 (0.015)	0.62 (0.025)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC110F	4.37 (0.172)	4.73 (0.186)	0.38 (0.015)	0.62 (0.025)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC110F/16	4.37 (0.172)	4.83 (0.190)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC110F/24	4.37 (0.172)	4.83 (0.190)	0.81 (0.032)	1.46 (0.057)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC125F	4.37 (0.172)	4.73 (0.186)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC125F/16	4.37 (0.172)	4.83 (0.190)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC150F	4.37 (0.172)	4.73 (0.186)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2

PolySwitch Resettable Devices

Surface-Mount Devices

Table S4 — Dimensions in Millimeters (Inches)

(Cont'd)

Part Number	A		B		C		D		E		F		G		H	Figure
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
miniSMDC Series; Size 4532mm/1812mils																
miniSMDC150F/12	4.37 (0.172)	4.83 (0.190)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC150F/16	4.37 (0.172)	4.83 (0.190)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC150F/24	4.37 (0.172)	4.83 (0.190)	1.00 (0.040)	1.94 (0.077)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC160F	4.37 (0.172)	4.73 (0.186)	0.28 (0.011)	0.48 (0.019)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC200F	4.37 (0.172)	4.73 (0.186)	0.51 (0.020)	1.22 (0.048)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC200F/16	4.37 (0.172)	4.73 (0.186)	0.51 (0.020)	1.22 (0.048)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC260F	4.37 (0.172)	4.73 (0.186)	0.48 (0.019)	0.78 (0.031)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC260F/12	4.37 (0.172)	4.83 (0.190)	1.02 (0.042)	1.52 (0.060)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC260F/13.2	4.37 (0.172)	4.83 (0.190)	1.02 (0.042)	1.52 (0.060)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC260F/16	4.37 (0.172)	4.83 (0.190)	1.02 (0.042)	1.52 (0.060)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
miniSMDC300F	4.37 (0.172)	4.73 (0.186)	0.45 (0.018)	0.76 (0.030)	3.07 (0.121)	3.41 (0.134)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
midSMD Series; Size 5050mm/2018mils																
SMD030F-2018	4.72 (0.186)	5.44 (0.214)	—	1.78 (0.070)	4.22 (0.166)	4.93 (0.194)	0.25 (0.010)	0.36 (0.014)	0.25 (0.010)	0.36 (0.014)	0.30 (0.012)	0.46 (0.018)	—	—	—	S3
decaSMD050F/60	4.70 (0.185)	5.31 (0.209)	0.63 (0.025)	0.89 (0.035)	4.19 (0.165)	4.81 (0.189)	0.25 (0.010)	0.95 (0.040)	0.25 (0.010)	—	—	—	—	—	—	S2
SMD100F-2018	4.72 (0.186)	5.44 (0.214)	—	1.52 (0.060)	4.22 (0.166)	4.93 (0.194)	0.25 (0.010)	0.36 (0.014)	0.25 (0.010)	0.36 (0.014)	0.30 (0.012)	0.46 (0.018)	—	—	—	S3
SMD150F-2018	4.72 (0.186)	5.44 (0.214)	—	1.52 (0.060)	4.22 (0.166)	4.93 (0.194)	0.25 (0.010)	0.36 (0.014)	0.25 (0.010)	0.36 (0.014)	0.30 (0.012)	0.46 (0.018)	—	—	—	S3
SMD200F-2018	4.72 (0.186)	5.44 (0.214)	—	1.52 (0.060)	4.22 (0.166)	4.93 (0.194)	0.25 (0.010)	0.36 (0.014)	0.25 (0.010)	0.36 (0.014)	0.30 (0.012)	0.46 (0.018)	—	—	—	S3
SMDC Series; Size 7555mm/2920mils																
SMDC125F/33	7.30 (0.287)	7.70 (0.303)	0.45 (0.018)	0.71 (0.028)	4.90 (0.193)	5.30 (0.209)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
SMDC185F/33	7.30 (0.287)	7.70 (0.303)	0.90 (0.035)	1.20 (0.047)	4.90 (0.193)	5.30 (0.209)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
SMDC300F/24	7.30 (0.287)	7.70 (0.303)	0.80 (0.031)	1.10 (0.043)	4.90 (0.193)	5.30 (0.209)	0.25 (0.010)	0.95 (0.040)	0.20 (0.008)	—	—	—	—	—	—	S2
SMDC310F/18	7.30 (0.287)	7.70 (0.303)	1.10 (0.043)	1.70 (0.067)	4.90 (0.193)	5.30 (0.209)	0.95 (0.037)	1.45 (0.057)	0.35 (0.014)	—	—	—	—	—	—	S2
SMD Series; Size 7555mm/2920mils																
SMD030F	6.73 (0.265)	7.98 (0.314)	—	3.18 (0.125)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD050F	6.73 (0.265)	7.98 (0.314)	—	3.18 (0.125)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD075F	6.73 (0.265)	7.98 (0.314)	—	3.18 (0.125)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4

PolySwitch Resettable Devices

Surface-Mount Devices

Table S4 — Dimensions in Millimeters (Inches)

(Cont'd)

Part Number	A		B		C		D		E		F		G		H	Figure
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
SMD Series; Size 7555mm/2920mils																
SMD075F/60	6.73 (0.265)	7.98 (0.314)	—	3.18 (0.125)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD100F	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD100F/33	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMDH120	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD125F	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD150F/33-2920	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD200F/24-2920	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD250F/15-2920	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD260F	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD300F	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD300F/15	6.73 (0.265)	7.98 (0.314)	—	3.00 (0.118)	4.80 (0.19)	5.44 (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD2 Devices; Size 8763mm/3425mils																
SMD150F	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD150F/33	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMDH160	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD185F	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD200F	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
SMD250F	8.00 (0.315)	9.40 (0.370)	—	3.00 (0.118)	6.00 (0.236)	6.71 (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	3.68 (0.145)	3.94 (0.155)	0.66 (0.026)	1.37 (0.054)	0.43 (0.017)	S4
High Temperature SMD Series; Size 3216mm/1206mils, 3225mm/1210mils & 7555mm/2920mils																
nanoSMDCH010F	3.00 (0.118)	3.40 (0.134)	0.30 (0.012)	0.70 (0.028)	1.37 (0.054)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDCH030F/24	3.00 (0.118)	3.40 (0.134)	0.85 (0.033)	1.25 (0.049)	1.40 (0.055)	1.80 (0.071)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
nanoSMDH075F	3.00 (0.118)	3.40 (0.134)	0.60 (0.023)	1.00 (0.039)	1.40 (0.055)	1.80 (0.071)	0.20 (0.008)	0.80 (0.032)	—	—	—	—	—	—	—	S5
microSMDCH010F	3.00 (0.118)	3.43 (0.135)	0.57 (0.022)	0.97 (0.038)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
microSMDCH050F	3.00 (0.118)	3.43 (0.135)	0.24 (0.009)	0.64 (0.025)	2.35 (0.092)	2.80 (0.110)	0.25 (0.010)	0.75 (0.030)	0.076 (0.003)	—	—	—	—	—	—	S2
SMDCH125F/24	7.30 (0.287)	7.70 (0.303)	0.90 (0.035)	1.40 (0.055)	4.90 (0.193)	5.30 (0.209)	0.95 (0.037)	1.45 (0.057)	0.35 (0.014)	—	—	—	—	—	—	S2

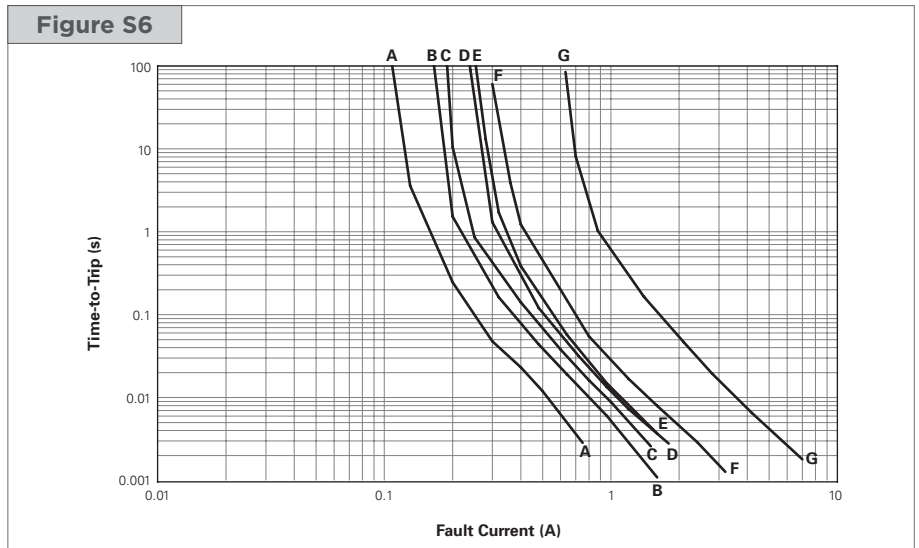
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Figures S6-S15 — Typical Time-to-Trip Curves at 20°C

femtoSMDCxxxF

- A = femtoSMDC005F
- B = femtoSMDC008F
- C = femtoSMDC010F
- D = femtoSMDC012F
- E = femtoSMDC016F
- F = femtoSMDC020F
- G = femtoSMDC035F



picoSMDCxxxS

- A = picoSMDC010S
- B = picoSMDC012S
- C = picoSMDC020S
- D = picoSMDC035S
- E = picoSMDC050S
- F = picoSMDC075S
- G = picoSMDC110S



nanoSMDCxxxF

- A = nanoSMDC010F
- B = nanoSMDC012F
- C = nanoSMDC016F
- D = nanoSMDC020F
- E = nanoSMDC025F
- F = nanoSMDC035F
- G = nanoSMDC050F/13.2
- H = nanoSMDC075F
- I = nanoSMDC110F
- J = nanoSMDC150F
- K = nanoSMDC200F



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Figures S6-S15 — Typical Time-to-Trip Curves at 20°C

(Cont'd)

microSMDxxxF

- A = microSMD005F
- B = microSMD010F
- C = microSMD035F
- D = microSMD050F
- E = microSMD075F
- F = microSMD110F
- G = microSMD150F
- H = microSMD175F
- I = microSMD200F



miniSMDCxxxF

- | | | |
|-----------------------------------|-----------------------------------|--|
| A = miniSMDC010F,
miniSMDC014F | G = miniSMDC075F/33 | O = miniSMDC150F/24 |
| B = miniSMDC020F | H = miniSMDC100F, miniSMDC110F | P = miniSMDC160F |
| C = miniSMDC030F | I = miniSMDC110F/16 | Q = miniSMDC200F |
| D = miniSMDC050F | J = miniSMDC110F/24 | R = miniSMDC200F/16 |
| E = miniSMDC075F | K = miniSMDC125F | S = miniSMDC260F |
| F = miniSMDC075F/24 | L = miniSMDC125F/16 | T = miniSMDC260F/12, miniSMDC260F/13.2,
miniSMDC260F/16 |
| | M = miniSMDC150F, miniSMDC150F/12 | |
| | N = miniSMDC150F/16 | U = miniSMDC300F |



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Figures S6-S15 — Typical Time-to-Trip Curves at 20°C

(Cont'd)

midSMD

- A = SMD030F-2018
- B = decaSMDC050F/60
- C = SMD100F-2018
- D = SMD150F-2018
- E = SMD200F-2018

Figure S11



SMDCxxxF

- A = SMDC125F/33
- B = SMDC185F/33
- C = SMDC300F/24
- D = SMDC310F/18

Figure S12



SMDxxxF

- A = SMD030F
- B = SMD050F
- C = SMD075F, SMD075F/60
- D = SMD100F, SMD100F/33
- E = SMDH120
- F = SMD150F/33-2920
- G = SMD125F
- H = SMD200F/24-2920
- I = SMD250F/15-2920
- J = SMD260F
- K = SMD300F, SMD300F/15

Figure S13



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Figures S6-S15 — Typical Time-to-Trip Curves at 20°C

(Cont'd)

SMD2xxxF

- A = SMD150F, SMD150F/33
- B = SMDH160
- C = SMD185F
- D = SMD200F
- E = SMD250F

Figure S14



High Temperature SMD

- A = nanoSMDCH010F
- B = microSMDCH010F
- C = nanoSMDCH030F/24
- D = microSMDCH050F
- E = nanoSMDH075F
- F = SMDCH125F/24

Figure S15



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Table S5 — Physical Characteristics and Environmental Specifications

Operating temperature range -40°C to 85°C, -40°C to 125°C for SMDH120, SMDH160 and High Temperature SMD

Physical Characteristics			
Terminal Pad Material	100% Matte Tin with Nickel Underplate		
Soldering Characteristics	ANSI/J-STD-002 Category 3 for femtoSMD, picoSMD, nanoSMD, microSMD, miniSMD and SMDC Series ANSI/J-STD-002 Category 1 for SMD Series		
Solder Heat Withstand	per IEC-STD 68-2-20, Test Tb, Section 5, Method 1A		
Flammability Resistance	per IEC 695-2-2 Needle Flame Test for 20 seconds		
Recommended Storage Conditions	40°C max, 70% R.H. max; Devices May Not Meet Specified Ratings if Storage Conditions Are Exceeded		
Environmental Specifications			
Test	Test Method	Conditions	Resistance Change
Storage Life	PS300, Section 5.3.2	60°C, 1000 hrs	±3% typ
		85°C, 1000 hrs	±5% typ
Humidity Aging	PS300, Section 5.3.1	85°C, 85% RH, 100 hrs	±1.2% typ
Thermal Shock	MIL-STD-202, Method 107G	85°C, -40°C (20 Times)	-33% typ
		125°C, -55°C (10 Times)	-33% typ
Vibration	MIL-STD-883C	per MIL-STD-883C	No Change
Solvent Resistance	PS300, Section 5.2.2	Freon	No Change
		Trichloroethane	No Change
		Hydrocarbons	No Change

Table S6 — Packaging and Marking Information

Part Number	Tape and Reel Quantity	Standard Package	Part Marking	Recommended Pad Layout Figures [mm (in)]			Agency Recognition
				Dimension A (Nom)	Dimension B (Nom)	Dimension C (Nom)	
femtoSMDC Series; Size 1608mm/0603mils							
femtoSMDC005F	4,000	20,000	A	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA
femtoSMDC008F	4,000	20,000	T	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA
femtoSMDC010F	4,000	20,000	B	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA, TÜV
femtoSMDC012F	5,000	25,000	C	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA
femtoSMDC016F	5,000	25,000	E	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA
femtoSMDC020F	5,000	25,000	F	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA, TÜV
femtoSMDC035F	4,000	20,000	K	0.80 (0.032)	0.60 (0.024)	0.80 (0.032)	UL, CSA
picoSMDC Series; Size 2012mm/0805mils							
picoSMDC010S	3,000	15,000	C	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC012S	4,000	20,000	F	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC020S	4,000	20,000	H	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC035S	4,000	20,000	I	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC050S	3,000	15,000	K	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC075S	3,000	15,000	M	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, CSA, TÜV
picoSMDC110S	3,000	15,000	S	1.50 (0.060)	1.00 (0.039)	1.20 (0.047)	UL, TÜV
nanoSMDC Series; Size 3216mm/1206mils							
nanoSMDC010F	3,000	15,000	A	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, TÜV
nanoSMDC012F	3,000	15,000	P	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC016F	3,000	15,000	N	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV

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Table S6 — Packaging and Marking Information

(Cont'd)

Part Number	Tape and Reel Quantity	Standard Package	Part Marking	Recommended Pad Layout Figures [mm (in)]			Agency Recognition
				Dimension A (Nom)	Dimension B (Nom)	Dimension C (Nom)	
nanoSMDC Series; Size 3216mm/1206mils							
nanoSMDC020F	3,000	15,000	02	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC025F	3,000	15,000	C	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC035F	3,000	15,000	03	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC050F/13.2	3,000	15,000	M	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC075F	3,000	15,000	L	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC110F	3,000	15,000	K	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC150F	3,000	15,000	15	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
nanoSMDC200F	3,000	15,000	T	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD Series; Size 3225mm/1210mils							
microSMD005F	4,000	20,000	05	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD010F	4,000	20,000	10	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD035F	4,000	20,000	3	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD050F	4,000	20,000	50	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD075F	4,000	20,000	75	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD110F	4,000	20,000	11	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD150F	4,000	20,000	15	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD175F	4,000	20,000	17	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
microSMD200F	3,000	15,000	20	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	UL, CSA, TÜV
miniSMDC Series; Size 4532mm/1812mils							
miniSMDC010F	2,000	10,000	10	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC014F	2,000	10,000	14	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC020F	2,000	10,000	2	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC030F	2,000	10,000	3	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC050F	2,000	10,000	5	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC075F	2,000	10,000	7	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC075F/24	1,500	7,500	075F 24V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC075F/33	1,500	7,500	075F 33V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC100F	2,000	10,000	1	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC110F	2,000	10,000	1	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC110F/16	2,000	10,000	110F 16V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC110F/24	1,500	7,500	110F 24V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC125F	2,000	10,000	12	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC125F/16	2,000	10,000	125F 16V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC150F	2,000	10,000	15	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC150F/12	2,000	10,000	150F 12V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC150F/16	2,000	10,000	150 16V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC150F/24	1,000	5,000	150F 24V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC160F	2,000	10,000	16	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC200F	2,000	10,000	20	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC200F/16	2,000	10,000	200F 16V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, TÜV
miniSMDC260F	2,000	10,000	260F	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC260F/12	1,500	7,500	260F 12V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC260F/13.2	1,500	7,500	260F 13V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC260F/16	1,500	7,500	260F 16V	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV
miniSMDC300F	2,000	10,000	30	3.15 (0.124)	1.68 (0.066)	3.10 (0.122)	UL, CSA, TÜV

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Table S6 — Packaging and Marking Information

(Cont'd)

Part Number	Tape and Reel Quantity	Standard Package	Part Marking	Recommended Pad Layout Figures [mm (in)]			Agency Recognition
				Dimension A (Nom)	Dimension B (Nom)	Dimension C (Nom)	
midSMD Series; Size 5050mm/2018mils							
SMD030F-2018	4,000	20,000	A03F	4.60 (0.18)	1.50 (0.059)	3.40 (0.134)	UL, CSA, TÜV
decaSMDC050F/60	1,000	5,000	050F 60V	4.32 (0.17)	1.40 (0.055)	3.61 (0.142)	UL, CSA, TÜV
SMD100F-2018	4,000	20,000	A10F	4.60 (0.18)	1.50 (0.059)	3.40 (0.134)	UL, CSA, TÜV
SMD150F-2018	4,000	20,000	A15F	4.60 (0.18)	1.50 (0.059)	3.40 (0.134)	UL, CSA, TÜV
SMD200F-2018	4,000	20,000	A20F	4.60 (0.18)	1.50 (0.059)	3.40 (0.134)	UL, CSA, TÜV
SMDC Series; Size 7555mm/2920mils							
SMDC125F/33	4,000	20,000	125F	5.30 (0.209)	2.00 (0.079)	4.60 (0.18)	UL
SMDC185F/33	4,000	20,000	185F 33V	5.30 (0.209)	2.00 (0.079)	4.60 (0.18)	UL, CSA, TÜV
SMDC300F/24	4,000	20,000	300F 24V	5.30 (0.209)	2.00 (0.079)	4.60 (0.18)	UL, CSA, TÜV
SMDC310F/18	3,000	15,000	310F 18V	5.30 (0.209)	2.00 (0.079)	4.60 (0.18)	UL, CSA, TÜV
SMD Series; Size 7555mm/2920mils							
SMD030F	2,000	10,000	030F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD050F	2,000	10,000	050F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD075F	2,000	10,000	075F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD075F/60	2,000	10,000	756F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD100F	2,000	10,000	100F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD100F/33	2,000	10,000	103F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMDH120	2,000	10,000	H12	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD125F	2,000	10,000	125F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD150F/33-2920	2,000	10,000	S15F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD200F/24-2920	2,000	10,000	S20F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD250F/15-2920	2,000	10,000	S25F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD260F	2,000	10,000	260F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD300F	2,000	10,000	300F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD300F/15	2,000	10,000	315F	3.10 (0.12)	2.30 (0.09)	5.10 (0.201)	UL, CSA, TÜV
SMD2 Devices; Size 8763mm/3425mils							
SMD150F	1,500	7,500	150F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
SMD150F/33	1,500	7,500	153F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
SMDH160	1,500	7,500	160F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
SMD185F	1,500	7,500	185F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
SMD200F	1,500	7,500	200F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
SMD250F	1,500	7,500	250F	4.60 (0.18)	2.30 (0.09)	6.10 (0.240)	UL, CSA, TÜV
High Temperature SMD Series; Size 3216mm/1206mils & 3225mm/1210mils & 7555mm/2920mils							
nanoSMDCH010F	4,000	20,000	H01	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	—
nanoSMDCH030F/24	3,000	15,000	H03	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	UL
nanoSMDH075F	3,000	15,000	H75	1.60 (0.063)	1.00 (0.039)	2.00 (0.079)	—
microSMDCH010F	3,000	15,000	H01	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	—
microSMDCH050F	4,000	20,000	H05	2.50 (0.098)	1.00 (0.039)	2.00 (0.079)	—
SMDCH125F/24	3,000	15,000	H125F 24V	5.30 (0.209)	2.00 (0.079)	4.60 (0.181)	UL

PolySwitch Resettable Devices

Surface-Mount Devices

Figure S16 — Recommended Pad Layout



Agency Recognition

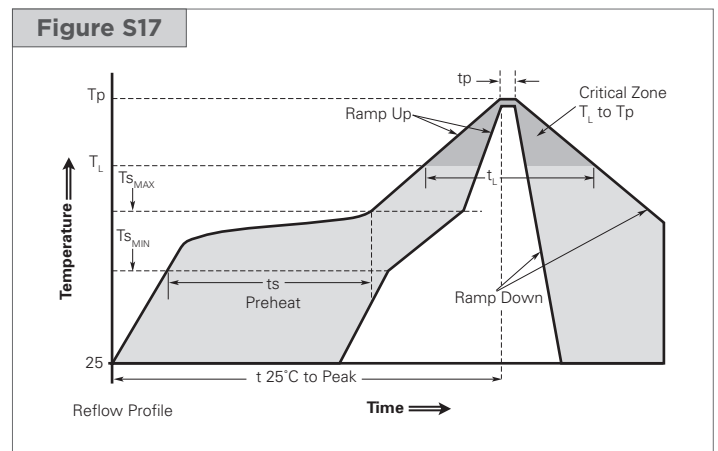
UL	File # E74889 for all Surface-mount Devices
CSA	File # CA78165 for all Surface-mount Devices
TÜV	Certificate Number Available Upon Request (Certified to IEC 60730-1)

Solder Reflow and Rework Recommendation

Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Average Ramp-up Rate ($T_{S_{MAX}}$ to T_p)	3°C/s max
Preheat	
• Temperature min ($T_{S_{MIN}}$)	150°C
• Temperature max ($T_{S_{MAX}}$)	200°C
• Time ($t_{S_{MIN}}$ to $t_{S_{MAX}}$)	60-120s
Time Maintained Above:	
• Temperature (T_L)	217°C
• Time (t_L)	60-150s
Peak/Classification Temperature (T_p)	260°C
Time within 5°C of Actual Peak Temperature	
Time (t_p)	30s max
Ramp-down Rate	3°C/s max
Time 25°C to Peak Temperature	8 mins max

Note: All temperatures refer to topside of the package, measured on the package body surface.



Solder Reflow

- Recommended reflow methods:
 - IR
 - Hot air
 - Nitrogen
- Recommended maximum paste thickness: 0.25mm (0.010in)
- Devices can be cleaned using standard methods and aqueous solvents.
- Experience has shown the optimum conditions for forming acceptable solder fillets occur when a reasonable amount of solder paste is placed underneath each device's termination. As such, we request that customers comply with our recommended solder pad layouts.
- Customer should validate that the solder paste amount and reflow recommendations meet its application.
- We request that customer board layouts refrain from placing raised features (e.g. vias, nomenclature, traces, etc.) underneath PolySwitch devices. It is possible that raised features could negatively impact solderability performance of our devices.

Rework

- femtoSMD, picoSMD, nanoSMD, microSMD, miniSMD and SMDC series: standard industry practices. (Please also avoid direct contact to the device.)
- SMD series: Rework should be confined to removal of the installed product and replacement with a fresh device.

PolySwitch Resettable Devices

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Table S7 — Tape and Reel Specifications (Millimeters)

Description	femtoSMDC	picoSMDC	nanoSMDC nanoSMDCCH010F nanoSMDCCH030F/24 and nanoSMDCCH075F	microSMDC microSMDCCH010F and microSMDCCH050F	miniSMDC and decaSMDC050F/60
	EIA 481-1	EIA 481-1	EIA 481-1	EIA 481-1	EIA 481-1
W	8.0 ± 0.30	8.0 ± 0.30	8.0 ± 0.30	8.0 ± 0.30	12.0 ± 0.30
P ₀	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10
P ₁	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	8.0 ± 0.10
P ₂	2.0 ± 0.05	2.0 ± 0.10	2.0 ± 0.05	2.0 ± 0.05	2.0 ± 0.05
A ₀	0.95 ± 0.05	1.70 ± 0.10	1.95 ± 0.10	2.9 ± 0.10	Table S8
B ₀	1.85 ± 0.05	2.45 ± 0.10	Table S8	Table S8	Table S8
B ₁ max	4.35	4.35	4.35	4.35	6.15
D ₀	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05	1.55 ± 0.05
F	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	3.50 ± 0.05	5.50 ± 0.10
E ₁	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10
E ₂ min	6.25	6.25	6.25	6.25	10.25
T max	0.3	0.3	0.3	0.3	0.35
T ₁ max	0.1	0.1	0.1	0.1	0.1
K ₀	Table S8	Table S8	Table S8	Table S8	Table S8
Description	midSMDC except decaSMDC050F/60	SMDC and SMDCH125F/24	SMD	SMD2	
	EIA 481-2	EIA 481-1	EIA 481-2	EIA 481-2	
W	16.0 ± 0.30	16.0 ± 0.30	16.0 ± 0.30	16.0 ± 0.30	
P ₀	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	4.0 ± 0.10	
P ₁	8.0 ± 0.10	8.0 ± 0.10	8.0 ± 0.10	12.0 ± 0.10	
P ₂	2.0 ± 0.10	2.0 ± 0.10	2.0 ± 0.10	2.0 ± 0.10	
A ₀	5.11 ± 0.15	Table S8	5.6 ± 0.23	6.9 ± 0.23	
B ₀	5.6 ± 0.23	Table S8	8.1 ± 0.15	9.6 ± 0.15	
B ₁ max	6.4	12.1	12.1	12.1	
D ₀	1.5 + 0.10/ -.00	1.5 + 0.10/ -.00	1.5 + 0.10/ -.00	1.5 + 0.10/ -.00	
F	7.50 ± 0.10	7.50 ± 0.10	7.50 ± 0.10	7.50 ± 0.10	
E ₁	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	1.75 ± 0.10	
E ₂ min	14.25	14.25	14.25	14.25	
T max	0.4	0.35	0.4	0.4	
T ₁ max	0.1	0.1	0.1	0.1	
K ₀	1.8 ± 0.15	Table S8	3.2 ± 0.15	3.4 ± 0.15	

PolySwitch Resettable Devices

Surface-Mount Devices

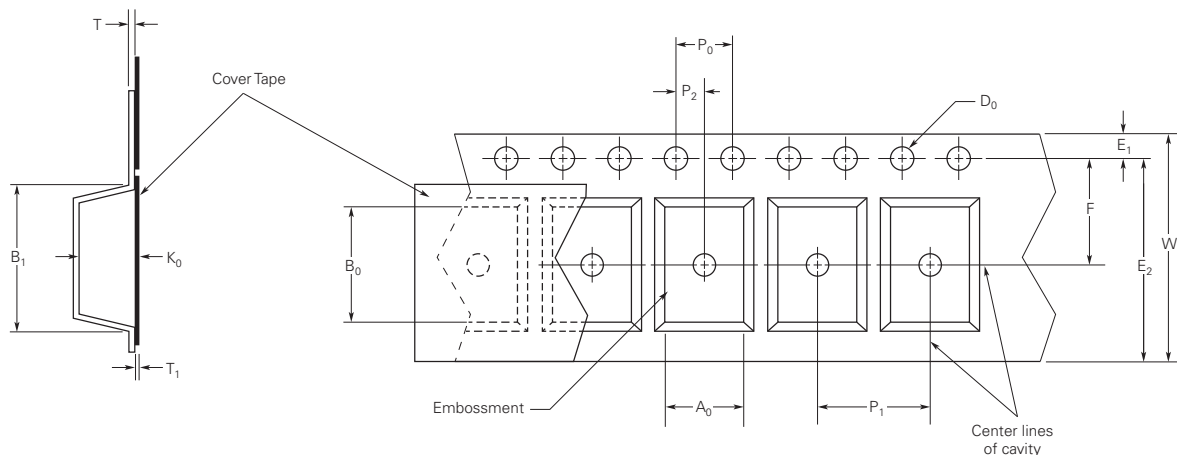
Table S8 — Tape and Reel Specifications (Millimeters)

	femtoSMDC005F femtoSMDC008F femtoSMDC010F femtoSMDC035F	femtoSMDC012F femtoSMDC016F femtoSMDC020F	picoSMDC012S picoSMDC020S picoSMDC035S	picoSMDC010S picoSMDC050S picoSMDC075S	picoSMDC110S	nanoSMDC010F and All nanoSMDC series except nanoSMDC010F nanoSMDC012F nanoSMDC016F nanoSMDC200F
A ₀	0.95 ± 0.05	0.95 ± 0.05	1.70 ± 0.1	1.70 ± 0.1	1.70 ± 0.1	1.95 ± 0.1
B ₀	1.85 ± 0.05	1.85 ± 0.05	2.45 ± 0.1	2.45 ± 0.1	2.45 ± 0.1	3.50 ± 0.1/-0.08
K ₀	0.90 ± 0.1	0.55 ± 0.05	0.86 ± 0.1	1.12 ± 0.1	1.35 ± 0.1	0.89 ± 0.1
	nanoSMDH075F nanoSMDC010F nanoSMDC012F nanoSMDC016F nanoSMDC200F	nanoSMDCH030F/24	microSMDCH050F and All microSMD series except microSMD200F	microSMDCH010F microSMD200F	miniSMDC010F miniSMDC014F-075F miniSMDC100F-110F/16 miniSMDC125F-150F/16 miniSMDC160F-260F miniSMDC300F	miniSMDC075F/24 miniSMDC075F/33 miniSMDC110F/24 miniSMDC260F/12 miniSMDC260F/13.2 miniSMDC260F/16
A ₀	1.95 ± 0.1	1.95 ± 0.1	2.9 ± 0.1	2.9 ± 0.1	3.5 ± 0.1	3.7 ± 0.1
B ₀	3.5 ± 0.1	3.5 ± 0.1	3.5 ± 0.1	3.55 ± 0.1	4.95 ± 0.1	4.9 ± 0.1
K ₀	1.27 ± 0.1	1.35 ± 0.1	0.9 ± 0.1	1.27 ± 0.1	0.9 ± 0.1	1.4 ± 0.1
	miniSMDC150F/24	decaSMDC050F/60	SMDCH125F/33	SMDC185F/33 SMDC300F/24	SMDC310F/18 SMDCH125F/24	
A ₀	3.7 ± 0.1	5.0 ± 0.1	5.5 ± 0.1	5.35 ± 0.1	5.5 ± 0.1	
B ₀	4.9 ± 0.1	5.4 ± 0.1	7.9 ± 0.1	7.85 ± 0.1	8.0 ± 0.1	
K ₀	1.78 ± 0.1	1.7 ± 0.1	0.9 ± 0.1	1.45 ± 0.1	2.0 ± 0.1	

Table S9 — Reel Dimensions (Millimeters)

	femto/pico/nano/microSMD/ High Temperature SMD (except SMDCH125F/24)	miniSMDC	midSMD	SMD/SMDC/ SMDCH125F/24	SMD2
A max	185	185	330	330	330
N min	50	50	50	50	50
W ₁	8.4 + 1.5/-0.00	12.4 + 2.0/-0.00	16.4 + 2.0/-0.00	16.4 + 2.0/-0.00	16.4 + 2.0/-0.00
W ₂ max	14.4	18.4	22.4	22.4	22.4

Figure S18 — EIA Referenced Taped Component Dimensions



PolySwitch Resettable Devices

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Figure S19 — EIA Referenced Reel Dimensions



Part Numbering System



Warning :

- Users should independently evaluate the suitability of and test each product selected for their own application.
- Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- These devices are intended for protection against damage caused by occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- Contamination of the PPTC material with certain silicone-based oils or some aggressive solvents can adversely impact the performance of the devices.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- PPTC devices are not recommended for installation in applications where the device is constrained such that its PTC properties are inhibited, for example in rigid potting materials or in rigid housings, which lack adequate clearance to accommodate device expansion.
- Operation in circuits with a large inductance can generate a circuit voltage (Ldi/dt) above the rated voltage of the device.

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