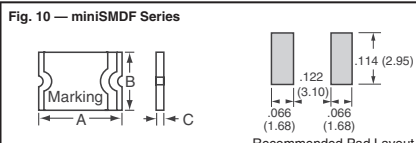
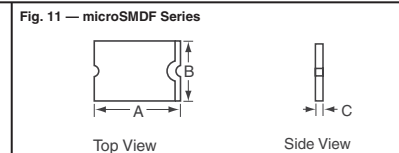


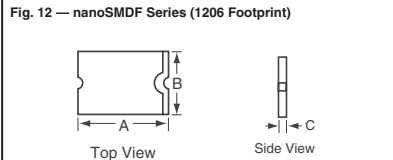
This product series is specifically designed for surface mount applications. The products range in hold currents from 0.3 amps – 3.0 amps and voltages from 6 volts – 60 volts. These devices are ideally suited for high density board applications in computer and general peripheral products, telecommunications and general electronics applications. They are designed to be re-flowed onto a PCB using standard surface mount processes. Packaged per EIA-481 standard.



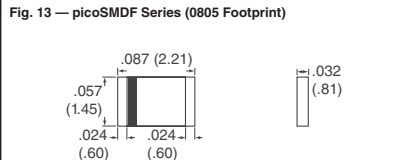
The miniSMDF resettable devices extremely small size makes them excellent choices for keyboard and mouse ports, SCSI devices, battery packs, PC cards and sockets, cellular modems and phones, and portable electronic equipment. SMT packaging for automated assembly compared to SMD the miniSMDF offers: 40% reduction in size, 300% faster time to trip, 50% reduction in DC resistance, 66% reduction in profile, 80% reduction in mass and drop in replacement for the NANO 2 device in many applications.



This product series is designed for surface-mount applications. Its smaller component size enables installation on crowded printed circuit boards and in small end-user devices such as digital cameras, personal digital assistants (PDAs) and palm-top computers. The new low hold current devices are ideal for protecting industrial sensors and data acquisition systems.



The nanoSMDF(F) series reduces the component size to a 1206 footprint, nearly half the size of the microSMDF(F) series and one-quarter the size of the popular miniSMDF series. The industries fastest time to trip. Smaller size saves board space and cost. Compatible with high volume electronics assembly.



The picoSMDF(F) series is designed for the latest generation of high frequency data ports, I/O ports and storage devices, and offers circuit designers the smallest PPTC overcurrent protection device available for consumer and computer electronics. The device's small size, fast time-to-trip, and low power dissipation make it a logical and innovative solution for high-density circuit board designs.

Fig.	Max. Voltage	Rated Current (20°C) (A)	Max. Hold	Max. Trip	Max. Current (A)	R1 Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm)			Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Raychem Part No.			
								A (Max.)	B (Max.)	C (Max.)		1	10	100	Qty.	Pricing				
10	13.2	0.75	1.50	100	0.45		UL, TUV, CSA	0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMD075FCT-ND	.36	.32	.29	2,000	174.24/M	MINISMD075F-2			
	24	1.75	1.50	40	0.29			0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMD075F242CT-ND	.46	.39	.36	1,500	218.53/M	MINISMD075F/24-2			
	8	1.10	2.20	100	0.21			0.186 (4.73)	0.134 (3.41)	0.025 (0.62)	MINISMD0110FCT-ND	.30	.26	.24	2,000	141.57/M	MINISMD0110F-2			
	24	1.10	2.20	20	0.18			0.190 (4.83)	0.134 (3.41)	0.051 (1.30)	MINISMD0110F242CT-ND	.46	.39	.36	1,500	218.53/M	MINISMD0110F/24-2			
	6	1.25	2.50	100	0.14			0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMD0125FCT-ND	.35	.31	.28	2,000	169.16/M	MINISMD0125F-2			
	16	1.25	2.50	100	0.14			0.190 (4.83)	0.134 (3.41)	0.019 (0.48)	MINISMD0125F162CT-ND	.41	.36	.33	2,000	196.75/M	MINISMD0125F/16-2			
	6	1.50	3.00	100	0.11			0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMD0150FCT-ND	.36	.32	.29	2,000	174.24/M	MINISMD0150F-2			
	12	1.50	2.80	100	0.11			0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMD0150F122CT-ND	.41	.36	.33	2,000	196.75/M	MINISMD0150F/12-2			
	24	1.50	3.00	20	0.12			0.190 (4.83)	0.134 (3.41)	0.066 (1.68)	MINISMD0150F242CT-ND	.51	.44	.40	1,000	243.94	MINISMD0150F/24-2			
	9	1.60	3.20	100	0.10			0.186 (4.73)	0.134 (3.41)	0.019 (0.48)	MINISMD0160FCT-ND	.35	.31	.28	2,000	169.16/M	MINISMD0160F-2			
8	2.00	4.00	100	0.07		0.186 (4.73)	0.134 (3.41)	0.048 (1.22)	MINISMD0200FCT-ND	.40	.35	.32	2,000	192.39/M	MINISMD0200F-2					
6	2.60	5.00	100	0.04		0.186 (4.73)	0.134 (3.41)	0.029 (0.74)	MINISMD0260FCT-ND	.40	.35	.32	2,000	192.39/M	MINISMD0260F-2					
microSMDF Series — RoHS Compliant																				
11	30	0.05	0.15	10	50		UL, TUV, CSA	0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSM005FCT-ND	.36	.32	.29	4,000	176.42/M	MICROSM005F-2			
	30	0.10	0.25	10	15			0.135 (3.43)	0.110 (2.79)	0.034 (0.85)	MICROSM005F25CT-ND	.36	.32	.29	4,000	176.42/M	MICROSM005F/25-2			
	6	0.35	0.75	40	1.3			0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSM0035FCT-ND	.36	.32	.29	4,000	176.42/M	MICROSM0035F-2			
	13.2	0.50	1.0	40	0.90			0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSM0050FCT-ND	.36	.32	.29	4,000	176.42/M	MICROSM0050F-2			
	6	0.75	1.5	40	0.40			0.135 (3.43)	0.110 (2.79)	0.025 (0.64)	MICROSM0075FCT-ND	.36	.32	.29	4,000	176.42/M	MICROSM0075F-2			
	6	1.10	2.2	40	0.21			0.135 (3.43)	0.110 (2.79)	0.019 (0.48)	MICROSM0110FCT-ND	.36	.32	.29	4,000	176.42/M	MICROSM0110F-2			
	6	1.50	3.00	40	0.11			0.135 (3.43)	0.110 (2.79)	0.048 (1.22)	MICROSM0150FCT-ND	.36	.32	.29	4,000	175.93/M	MICROSM0150F-2			
	6	1.75	3.50	40	0.08			0.135 (3.43)	0.110 (2.79)	0.030 (0.76)	MICROSM0175FCT-ND	.37	.32	.29	4,000	177.15/M	MICROSM0175F-2			
	nanoSMDF Series — RoHS Compliant																			
	12	48	0.16	0.45	10	1.10			UL, TUV, CSA	0.134 (3.40)	0.071 (1.80)	0.039 (1.00)	NANOSMDC016F-2CT-ND	.35	.30	.28	3,000	167.71/M	NANOSMDC016F-2	
24		0.20	0.42	100	2.6		0.134 (3.40)	0.071 (1.80)		0.025 (0.64)	NANOSMDC020FCT-ND	.35	.30	.28	3,000	167.71/M	NANOSMDC020F-2			
16		0.35	0.75	20	1.40		0.134 (3.40)	0.071 (1.80)		0.025 (0.64)	NANOSMDC035FCT-ND	.35	.30	.28	3,000	167.71/M	NANOSMDC035F-2			
13.2		0.50	1.10	100	0.8		0.134 (3.40)	0.071 (1.80)		0.025 (0.64)	NANOSMDC050F/13.2CT-ND	.35	.30	.28	3,000	167.71/M	NANOSMDC050F/13.2-2			
6		0.75	1.50	100	0.40		0.134 (3.40)	0.071 (1.80)		0.048 (1.22)	NANOSMDC075FCT-ND	.35	.30	.28	3,000	167.71/M	NANOSMDC075F-2			
6		1.10	2.20	100	0.20		0.134 (3.40)	0.071 (1.80)		0.039 (1.00)	NANOSMDC110FCT-ND	.36	.31	.28	3,000	170.61/M	NANOSMDC110F-2			
6		1.50	3.00	100	0.11		0.134 (3.40)	0.071 (1.80)		0.035 (0.89)	NANOSMDC150FCT-ND	.36	.31	.28	3,000	170.61/M	NANOSMDC150F-2			
picoSMDF Series — RoHS Compliant																				
13	6	0.35	0.75	20	1.40		UL, TUV, CSA	—	—	—	PICOSMD035F-2CT-ND	.35	.30	.28	4,000	167.85/M	PICOSMD035F-2			

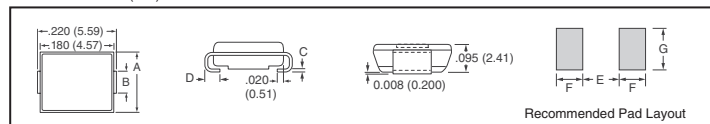
† For Tape and Reel part number, change CT-ND to TR-ND.

Raychem SiBar™ Thyristor Surge Protectors

SiBar thyristor surge protection devices help protect sensitive telecom and datacom equipment from overvoltage events, including lightning transients, and operate as shunt devices in response to a surge that exceeds the breaker voltage. Compliant with major standards such as GR-1089 Core, ITU-T-K20/K21, IEC61000-4-5 and FCC part 68, and UL1950. SiBar devices provide fast, bidirectional protection on communications network equipment, including analog and digital linecards, xDSL and ISDN modems, set-top boxes, TI equipment, Voice over IP (VoIP) and Power over Ethernet (PoE) equipment.

- Features:** • Bidirectional transient voltage protection • High off-state impedance • Low on-state voltage • High surge capability • Short-circuit failure mode • Surface-mount technology

Dimensions: Inches (mm)



VDM Max. (V)	VBO Max. (V)	IH Max. (mA)	VT Max. (V)	C1 @50V Typical (pF)	C2 @2V Typical (pF)	ITSM Min. (A)	Dimensions – Inches (mm)							Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		Raychem Part No.	
							A	B	C	D	E	F	G		1	10	100	Qty.	Pricing		
Standard SMA Package (JEDEC DO-214AC)																					
270	365	150	4.0	16	31	22	0.115 (2.92)	0.065 (1.65)	0.016 (0.41)	0.060 (1.52)	0.079 (2.00)	0.079 (2.00)	0.079 (2.00)	0.079 (2.00)	TVA270SA-LCT-ND	.38	.33	.30	5,000	174.97/M	TVA270SA-L
Standard SMB Package (JEDEC DO-214AA)																					
6	20	50 (Typ.)	4.0	—	50	28	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	0.089 (2.261)	TVB006SB-LCT-ND	1.07	.92	.84	2,500	512.27/M	TVB006SB-L
25	40	150	4.0	—	65	41	0.155 (3.94)	0.087 (2.20)	0.012 (0.31)	0.050 (1.27)	0.089 (2.261)	0.085 (2.159)	0.108 (2.743)	0.089 (2.261)	TVB025RSC-LCT-ND	.66	.57	.52	2,500	317.12/M	TVB025RSC-L

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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