

RAYCHEM ESD Protectors and SMD Chip Fuses

Products may be RoHS compliant.
Check mouser.com for RoHS status.

SILICON ESD PROTECTION DEVICES

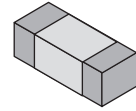
The Silicon ESD (SESD) protection devices help protect electronic circuits against damage from electrostatic discharge (ESD) events

Features:

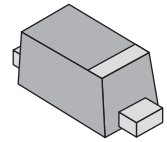
- Small size SESD protection diodes for high speed signals
- Halogen Free
- Low-breakdown voltage < 5.8V
- Capable of withstanding numerous ESD strikes
- Low capacitance and insertion loss
- 5V Working Reverse Voltage

Applications:

- USB 2.0/3.0, HDMI 1.3/1.4, and Displayport
- Mobile phones and portable electronics
- Low-voltage antenna ports
- Applications requiring high ESD performance in a small package



SESD0201C CSP Package



SESD0402S SOD-923 CSP Package

For quantities of 500 and up, call or quote.

MOUSER STOCK NO.	Raychem Part No.	Package Size	ESD Withstand		Total Power Dissipation (mW)	Input Capacitance		Price Each		
			Contact (kV)	Air (kV)		Typical (pF)	Maximum (pF)	1	10	100
650-SESD0201C-120058	SESD0201C-120-058	0201	±8	±15	150	0.6	0.9	.19	.18	.17
650-SESD0201C-006058	SESD0201C-006-058	0201	±8	±15	250	12	13.5	.38	.36	.34
650-SESD0402S-005054	SESD0402S-005-054	0402	±10	±15	250	0.5	0.9	.28	.26	.25

POLYSWITCH femtoSMDC DEVICE

Benefits:

- Small footprint saves board space and cost
- Meets industry requirements for I/O port protection
- Compatible with high-volume electronics assembly

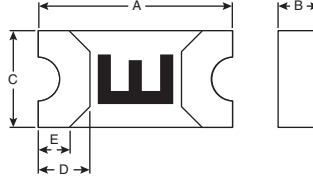


Features:

- Voltage rating up to 9V
- Fast time-to-trip
- Halogen Free
- 0603 Package

Applications:

- High frequency data ports
- Storage Devices
- Portable electronics
- Multimedia devices
- Gaming machines
- Mobile phones
- Automotive Peripherals



DIMENSIONS: mm (in.)

	MIN	MAX
A	1.40 (0.055)	1.80 (0.071)
B	0.35 (0.013)	0.75 (0.030)
C	0.60 (0.023)	1.00 (0.039)
D	0.10 (0.004)	0.50 (0.020)
E	0.075 (0.003)	-----

For quantities of 500 and up, call or quote.

MOUSER STOCK NO.	I _H (A)	I _T (A)	V _{max} (VDC)	I _{max} (A)	P _D max (W)	R _{min} (Ω)	R ₁ max (Ω)	Price Each					
								1	10	100	250		
650-FEMTOSMDC016F	0.16	0.40	9	40	0.50	1.00	0.10	1.00	4.20	.49	.42	.38	.35

POLYMER ESD PROTECTOR

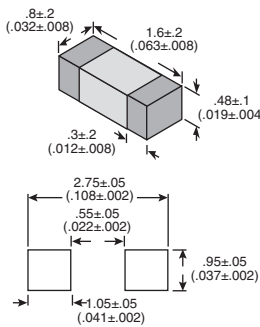
Raychem PESD devices are designed for use in low capacitance applications, such as designs with high speed data transmission needs. The compact design offers board space savings and longer battery life due to low leakage current. Features include thick film technology, capacitance typically less than .2pF, low leakage current, trigger and clamping voltages, and a response time less than 1ns. These devices are capable of withstanding numerous ESD strikes and are compatible with standard reflow installation procedures.

Features:

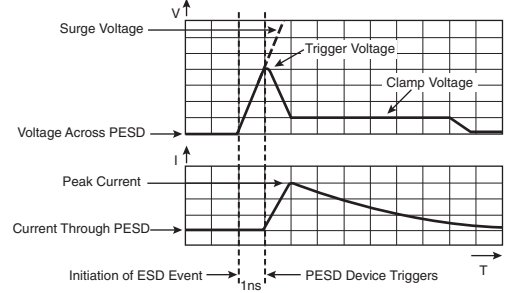
- Storage and Operating Temperature: -40°C - +85°C
- ESD Pulse Withstand: 100 pulses min., 500 pulses typ. (tested per IEC 61000-4-2, level 4, contact method)
- ESD Voltage Capability (tested per IEC 6100-4-2)
- Contact Discharge Mode: 8kV typ., 15kV max.
- Air Discharge Mode: 15kV typ., 25kV max.

Applications:

- Cellular Phones
- Antennas
- Portable Devices
- Printer Ports
- High Speed Ethernet
- DVI and HDMI Interfaces
- USB 2.0 and IEEE 1394 Interfaces



DIMENSIONS: mm (in.)



Note:

- Measured during IEC 61000-4-2, level 4 pulse, 8kV contact test method
- Measured 30ns after pulse initiation

For quantities of 500 and up, call or quote.

MOUSER STOCK NO.	Continuous Maximum Operating Voltage (VDC)	Typical IEC Trigger Voltage (V)	Typical IEC Clamping Voltage after 30ns (V)	Typical TLP Trigger Voltage (V)	Typical TLP Clamping Voltage after 30ns (V)	Typical TLP Clamping Voltage after 60ns (V)	Typical Capacitance @ 1 MHz, 1Vrms (pF)	Typical Leakage Current @ 6VDC (µA)	Maximum Leakage Current @ 6VDC (µA)	Price Each			
										1	10	100	250
650-PESD0603-240	14	350	30	320	75	65	0.25	<0.001	0.01	.15	.13	.126	.12

FAST ACTING SMD CHIP FUSES

Features:

- Small size with high current ratings
- Excellent temperature stability
- High reliability and resilience
- Strong arc suppression characteristics

Applications:

- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD displays
- Scanners

Specifications:

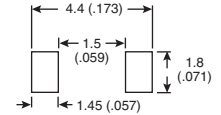
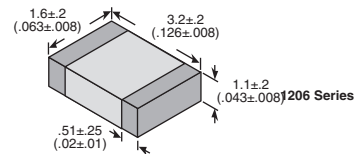
- Monolithic, multilayer design
- Lead-free construction
- High temperature performance
- -55° to +125°C operating range

Agency Approvals:

- UL File# E197536

Clear Time Characteristics:

- % of rated current: 100 (4 Hours Min), 250 (5 Seconds Max), 400 (.05 Seconds Max)
- Clear time at 25°C:



1206 Series (3216mm)

For quantities of 1000 and up, call or quote.

MOUSER STOCK NO.	Rated Current (A)	Nominal Cold DCR (Ω)	Voltage (V)	Current (A)	Price Each			
					1	10	100	500
650-1206SFF050F/63	0.50	0.5	63	50	.41	.37	.32	.30
650-1206SFF075F/63	0.75	0.33	63	50	.41	.37	.32	.30
650-1206SFF100F/63	1.00	0.22	63	50	.33	.31	.28	.26
650-1206SFF150F/63	1.50	0.12	63	50	.40	.37	.31	.30
650-1206SFF200F/63	2.00	0.05	63	50	.40	.37	.31	.30
650-1206SFF300F/32	3.00	0.031	32	50	.33	.31	.28	.26

For quantities of 1000 and up, call or quote.

MOUSER STOCK NO.	Rated Current (A)	Nominal Cold DCR (Ω)	Voltage (V)	Current (A)	Price Each			
					1	10	100	500
650-1206SFF400F/32	4.00	0.022	32	45	.40	.37	.31	.30
650-1206SFF500F/32	5.00	0.015	32	45	.40	.37	.31	.30
650-1206SFF600F/24	6.00	0.013	24	45	.33	.31	.29	.27
650-1206SFF700F/24	7.00	0.011	24	45	.40	.37	.33	.30
650-1206SFF800F/24	8.00	0.008	24	45	.40	.37	.33	.30