

RAYCHEM PESD and SMD Chip Fuses

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

RAYCHEM POLYMER ESD PROTECTORS

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:

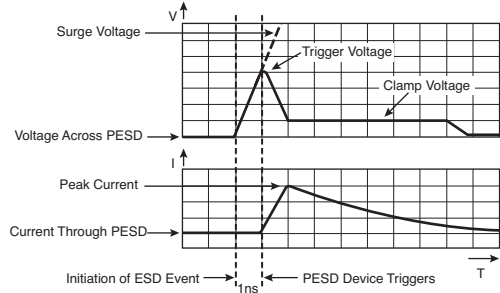
- Storage and Operating Temperature: -40°C - +85°C
- ESD Pulse Withstand: 100 pulses min., 500 pulses typ. (tested per IEC 61000-4-2, level 4, contact method)
- ESD Voltage Capability (tested per IEC 6100-4-2)
- Contact Discharge Mode: 8kV typ., 15kV max.
- Air Discharge Mode: 15kV typ., 25kV max.
-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

Applications for 650-PESD0402-060 and 650-PESD0603-140:

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

Applications for 650-PESD1206Q-140:

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



Note:

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

DIMENSIONS: mm (in.)

A

B

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Continuous Maximum Operating Voltage	Typical IEC Trigger Voltage	Typical IEC Clamping Voltage after 30ns	Typical TLP Trigger Voltage	Typical TLP Clamping Voltage after 30ns	Typical TLP Clamping Voltage after 60ns	Typical Capacitance @ 1 MHz, 1Vrms	Typical Leakage Current @ 6VDC	Maximum Leakage Current @ 6VDC	Price Each			
		VDC (V)	VT(IEC) (V)	VC(IEC) (V)	VC(TLP) (V)	VC(TLP 30) (V)	VC(TLP 60) (V)	Cp (pF)	IL(Typ) (µA)	IL(MAX) (µA)	1	10	100	500
650-PESD0603-240	A	14	350	30	320	75	65	0.25	<0.001	0.01	.15	.13	.126	.113
650-PESD1206Q-140	B	24	150	30	-	-	-	0.2	<0.001	0.01	.41	.39	.36	.34

RAYCHEM FAST ACTING SMD CHIP FUSES

Features:

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

Specifications:

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

Agency Approvals:

- UL File# E197536

Applications:

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

Clear Time Characteristics:

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

0402 Series (1005mm)

For quantities of 500 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
650-0402SFF050F/24	0.50	0.38	24	35	.44	.40	.36	.33
650-0402SFF075F/24	0.75	0.21	24	35	.44	.40	.36	.33
650-0402SFF100F/24	1.00	0.12	24	35	.44	.40	.36	.33
650-0402SFF150F/24	1.50	0.056	24	35	.44	.40	.36	.33
650-0402SFF200F/24	2.00	0.035	24	35	.44	.40	.36	.33
650-0402SFF300F/24	3.00	0.021	24	35	.44	.40	.36	.33
650-0402SFF400F/24	4.00	0.014	24	35	.44	.40	.36	.33

DIMENSIONS: mm (in.)

0402 Series

0603 Series

1206 Series

1206 Series (3216mm)

For quantities of 500 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
650-1206SFF175F/63	1.75	0.1	63	50	.40	.37	.31	.30
650-1206SFF200F/63	2.00	0.05	63	50	.40	.37	.31	.30
650-1206SFF250F/32	2.50	0.035	32	50	.33	.31	.28	.26
650-1206SFF300F/32	3.00	0.031	32	50	.33	.31	.28	.26
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