

## Product Overview

### ESD8006: Low Capacitance ESD Protection Diode Array, Thunderbolt

For complete documentation, see the data sheet.

The ESD8006 transient voltage suppressor is specifically designed to protect USB 3.0 and Thunderbolt interfaces from ESD. Ultra-low capacitance and low ESD clamping voltage make this device an ideal solution for protecting voltage sensitive high speed data lines. The flow-through style package allows for easy PCB layout and matched trace lengths necessary to maintain consistent impedance between high speed differential lines.

#### Features

- 0.25pF max capacitance
- Clamping voltage less than 8.6V at 16A

#### Applications

- USB3.0
- Thunderbolt

#### Benefits

- Maintains signal integrity for data lines up to 10Gb/s and greater
- Protects chipsets with small process geometries

#### End Products

- Computing
- Computing accessories
- Hard drives

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V <sub>(BR)</sub> Min (V)	V <sub>RWM</sub> Max (V)	I <sub>R</sub> Max (μA)	P <sub>PK</sub> Max (W)	Package Type
ESD8006MUTAG	0.1987	Pb-free Halide free non AEC-Q and PPAP	Active	Display Port eSATA 3.0 Thunderbolt USB 3.0 USB 3.1	6	Unidirectional	0.32	5.5	3.3	1	-	UDFN-8
SZESD8006MUTAG	0.2187	AEC Qualified PPAP Capable Pb-free Halide free	Active	Display Port eSATA 3.0 Thunderbolt USB 3.0 USB 3.1	6	Unidirectional	0.32	5.5	3.3	1	-	UDFN-8

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