

## Product Overview

### ESD9X12S: ESD Protection Diode

For complete documentation, see the data sheet.

The ESD9X Series is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.

### Features

- Small Body Outline Dimensions: 0.039 x 0.024 (1.0 mm x 0.60 mm)
- Low Body Height: 0.017 (0.43 mm) Max
- Standoff Voltage: 3.3 V 12 V
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC6100042 Level 4 ESD Protection
- These are PbFree Devices

### Applications

- Cellular phones, MP3 players, Digital cameras and many other portable applications
- MP3 Player

### 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) Max</sub> (V)	I <sub>R</sub> Max (μA)	P <sub>PK</sub> Max (W)	Package Type
ESD9X12ST5G	0.0321	Pb-free	Active	General I/O	1	Unidirectional	30	13.5	12	1	140	SOD-923-2
		Halide free										
SZESD9X12ST5G	0.0903	AEC Qualified PPAP Capable Pb-free Halide free	Active	General I/O	1	Unidirectional	30	13.5	12	1	140	SOD-923-2

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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