

Product Overview

ESD5B: ESD Protection Diode, Bidirectional

For complete documentation, see the data sheet.

The ESD5B 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 and bi-directional design, it is ideal for use in cellular phones, MP3 players, and portable applications that require audio line protection.

Features

- Cap = 32 pf
- Low Leakage
- IEC61000-4-2 30 kV contact
- Low Clamping Voltage
- Long Life

Benefits

- Preserves signal integrity for high speed data lines.
- Preserves battery life
- Best in class protection for the most severe ESD conditions
- Protects sensitive components
- Does not degrade over numerous ESD strikes in comparison to varistor technology

Applications

- speaker line

End Products

- cell phones, MP3 players

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V _(BR) Min (V)	V _{RWM} Max (V)	I _R Max (μA)	P _{PK} Max (W)	Package Type
ESD5B5.0ST1G	0.0293	Pb-free Halide free non AEC-Q and PPAP	Active	General I/O	1	Bidirectional	32	5.8	5	1	50	SOD-523-2
ESD5B5.0ST5G	0.0308	Pb-free Halide free non AEC-Q and PPAP	Active	General I/O	1	Bidirectional	32	5.8	5	1	50	SOD-523-2
SZESD5B5.0ST1G	0.0807	AEC Qualified PPAP Capable Pb-free Halide free	Active	General I/O	1	Bidirectional	32	5.8	5	1	50	SOD-523-2
SZESD5B5.0ST5G	0.0807	AEC Qualified PPAP Capable Pb-free Halide free	Active	General I/O	1	Bidirectional	32	5.8	5	1	50	SOD-523-2

For more information please contact your local sales support at www.onsemi.com.

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