



Product Overview

SD12: ESD Protection Diode, Unidirectional, SOD-323

For complete documentation, see the [data sheet](#)

Product Description

These zener diodes are designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

Features

- Steady State Power Rating of 200mW
- Peak Power: 350 Watts (8 x 20 us)
- Low Leakage
- Cathode Indicated by Polarity Band
- Package Weight: 4.507 mg
- Meets IEC61000-4-2 Level 4, 15 kV (Air), 8 kV (Contact)
- Meets IEC61000-4-4 Level 4, 40A
- Meets 16kV Human Body Model ESD Requirements
- Device Meets MSL1 Requirements
- Meets IEC6100-4-5, Lightning, 24A

Applications

- Voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications.

Part Electrical Specifications

Product	Compliance	Status	Dir	V _(BR) Typ (V)	P _{PK} Max (W)	V _{RWM} Max (V)	I _R Max (uA)	V _C Max (V)	Package Type
SD12T1G	AEC Qualified Pb-free Halide free	Active	Unidirectional	14.5	350	12	1	25	SOD-323

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

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