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# ESD PROTECTION DIODES IN ULTRA COMPACT DFN PACKAGE WITH WETTABLE FLANKS



AEC-Q101  
Qualified Available



**Single-line and dual-line  
ESD protection diodes**

**Working range:**  
**± 1 V to ± 36 V**

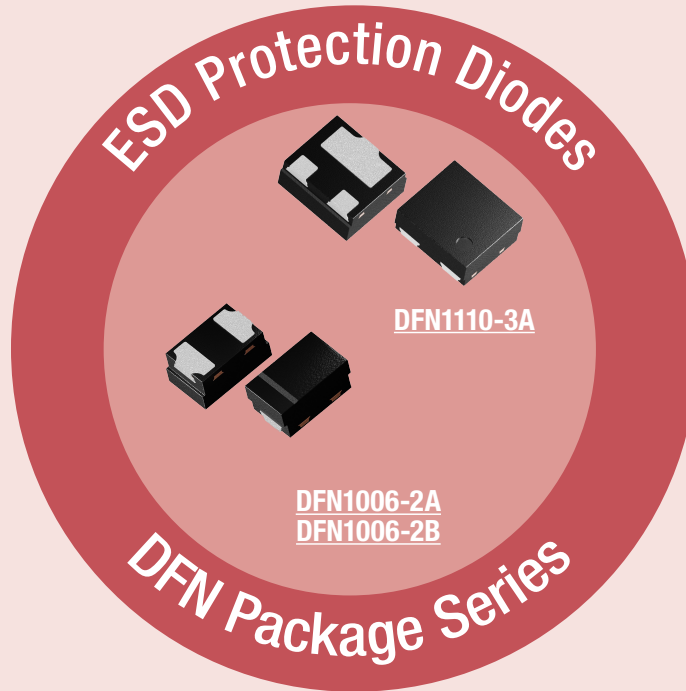


**Low leakage current:**  
**< 0.1 µA**

**Operating  
temperature range:**  
**-55 °C to +150 °C**



**Available in DFN series:**  
**DFN1006-2A, DFN1006-2B, DFN1110-3A**



## FEATURES

- Bidirectional symmetrical (BiSy) dual-line in the compact DFN1110-3A package with wetttable flanks
- Unidirectional / bidirectional asymmetrical (BiAs) single-line in the compact new DFN1006-2A and DFN1006-2B packages with side-wetttable terminals
- Due to the short leads and small size of the DFN1006-2A and DFN1006-2B packages, the devices' line inductance is very low, allowing fast transients such as an ESD strike to be clamped with minimal over- or undershoots
- Saves space over solutions in SOT packages
- Provides protection of high speed data lines against transient voltage signals
- AOI capable (AOI = automated optical inspection)

## LEARN MORE:

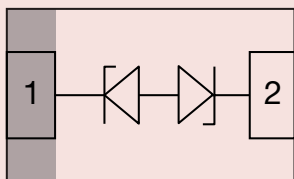
- [The Advantages of a DFN1006 Package](#)

## DFN SERIES

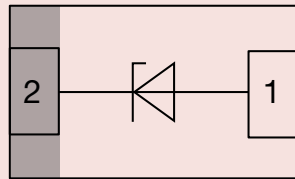
- VESD: [VESD01C1-HD1 to VESD33C1-HD1](#), [VESD24E1-HD1](#)
- VBUS: [VBUS03N1-HD1](#), [VBUS05N1-HD1](#), [VBUS03N1-DD1](#), [VBUS05N1-DD1](#), [VBUS05M2-HT5](#)
- VCUT: [VCUT0714BHD1](#)
- VMMBZ: [VMMBZ16C1DD1 to VMMBZ33C1DD1](#)
- VLIN: [VLIN1616-DD1](#), [VLIN1626-DD1](#), [VLIN2626-DD1](#)
- VCAN: [VCAN24A2-HT5](#), [VCAN33A2-HT5](#), [VCAN36A2-HT5](#)
- VETH: [VETH100A1DD1](#)

## DEVICE SCHEMATICS

### BIDIRECTIONAL



### UNIDIRECTIONAL



## APPLICATIONS

ESD protection of high speed interfaces in:



CONSUMER



AUTOMOTIVE

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