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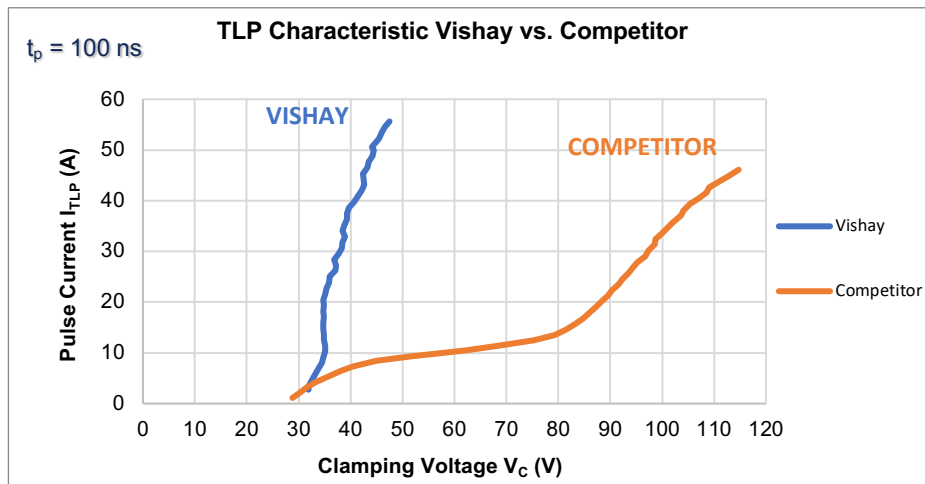
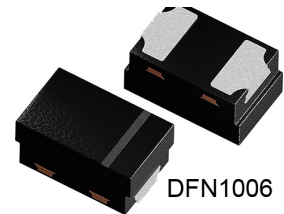
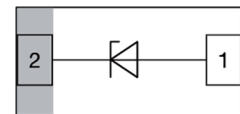
New VESD24E1-HD1 ESD Protection Diode With Low Leakage Current and Dynamic Resistance in Ultra Compact DFN1006 Package for General Commercial and Automotive Applications

Offered in the ultra compact DFN1006 two-pin package with wettable flanks, Vishay’s new VESD24E1-HD1 ESD protection diode is a single-line unidirectional device for general commercial and automotive applications. The VESD24E1-HD1 provides low leakage current to minimize circuit power consumption and improved dynamic resistance and clamping to enhance ESD absorption performance for superior system protection.

This protection diode is available in an AEC-Q101 qualified version and offers significant advantages compared to the closest competing device:

- Very low clamping voltage
- Very low dynamic resistance (0.33 Ω)

Unidirectional Device





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Device Specification Table

No.	Device Name	Package	Type	V _{RWM}	I _R at V _{RWM}	R _{dyn}	Capacitance V _R = 0 V (Typ.)	ESD Immunity
1	VESD24E1-HD1-G3	DFN1006-2A	Commercial	24 V	10 nA	0.33 Ω	28 pF	30 kV
2	VESD24E1-HD1HG3		AEC-Q101					

Features

- Ultra compact DFN1006-2A package
- Low package height of < 0.5 mm
- 1-line unidirectional ESD protection
- Working range of 24 V
- ESD immunity in accordance with IEC 61000-4-2
 - ± 30 kV contact discharge
 - ± 30 kV air discharge
- Lead plating: e3 - Sn, tin-plated exposed side wall of lead frame
- AEC-Q101 qualified version available
- AOI capable (AOI = automated optical inspection)

Applications

- General ESD protection for commercial and automotive applications
- General I/O
- Computer and peripherals
- Portable electronic devices
- Telecom mobile devices

Samples

Request samples directly on www.vishay.com

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