



New VBUS05M2-HT5 BiSy 2-Line ESD Protection Diode Features Space-Saving DFN1110-3A Package With Wettable Flanks and Ultra Low Capacitance Down to 0.37 pF Typical for Interface Protection in Commercial and Automotive Applications

Product Benefits:

- Compact DFN1110-3A package with wettable flanks
- Low load capacitance of 0.37 pF typical
- Available in an AEC-Q101 qualified version
- Low maximum leakage current of $< 0.1 \mu\text{A}$ at the working voltage of $\pm 5.5 \text{ V}$
- Breakdown voltage of 8.5 V typical at 1 mA
- Maximum clamping voltage of 18 V at 3.4 A
- Provides transient protection for data lines as per IEC 61000-4-2 at $\pm 20 \text{ kV}$ (air and contact discharge)
- Moisture sensitivity level (MSL) of 1 in accordance with J-STD-020
- UL 94 V-0 flammability rating
- RoHS-compliant, halogen-free, and [Vishay Green](#)
- Supports automated optical inspection (AOI) for automotive systems



Market Applications:

- Interface protection including USB 2.0, USB 3.0, and HDMI in commercial and automotive applications

The News:

Vishay Intertechnology releases a new bidirectional symmetrical (BiSy) 2-line ESD protection diode in the compact DFN1110-3A package with wettable flanks.

- Saves space over solutions in SOT packages
- Provides protection of high speed data lines against transient voltage signals

The Key Specifications:

- Package: DFN1110-3A
- Load capacitance: 0.37 pF typical; 0.45 pF maximum
- Leakage current: $< 0.1 \mu\text{A}$
- Working voltage: $\pm 5.5 \text{ V}$
- Typical breakdown voltage: 8.5 V at 1 mA
- Maximum clamping voltage: 18 V at 3.4 A

Device Specification Table:

Ordering part number	Package	Type	VRWM	Capacitance
VBUS05M2-HT5-G3-08	DFN1110-3A	Commercial	$\pm 5.5 \text{ V}$	0.45 pF
VBUS05M2-HT5HG3-08	DFN1110-3A	AEC-Q101	$\pm 5.5 \text{ V}$	0.45 pF



NEW PRODUCT INFORMATION



Product Group: Vishay Semiconductors, Diodes / **April 2021**

Availability:

Samples and production quantities of the VBUS05M2-HT5 are available now, with lead times of 12 weeks for large orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?86166> (VBUS05M2-HT5)

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