



## Vishay Intertechnology 10 MBd Optocouplers Combine a Low Supply Current of 5 mA With a Wide Voltage Supply Range of 2.7 V to 5.5 V

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### High Speed Devices Save Energy in Industrial Applications While Enabling Usage With Low Voltage Microcontrollers and I<sup>2</sup>C Bus Systems

MALVERN, Pa., Dec. 06, 2023 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced five new 10 MBd high speed optocouplers that provide low power consumption to save energy in industrial applications. Featuring a wide voltage supply range of 2.7 V to 5.5 V and an open collector output, the single-channel [VOH260A](#), [VOIH060A](#), and [VOWH260A](#) and dual-channel [VOH263A](#) and [VOIH063A](#) enable usage with low voltage microcontrollers and I<sup>2</sup>C and SPI bus systems.

Offered in DIP-8, SMD-8, and SOIC-8 packages, the Vishay Semiconductors devices released today utilize a highly efficient input LED coupled to an integrated photodetector logic gate with a strobable output. The optocouplers combine a low supply current of 5 mA maximum per channel with a low typical turn-on threshold current of 2 mA typical, which simplifies designs by eliminating the need for an additional driver stage for a direct microcontroller connection.

The VOH260A, VOIH060A, VOWH260A, VOH263A, and VOIH063A are ideal for data communications, high speed A/D and D/A conversion, level shifting, and providing high voltage safety in automation equipment, motor drives, and tools. The devices feature an internal shield that provides a guaranteed common mode transient immunity (CMTI) of 15 kV/ $\mu$ s minimum. Combined with their low turn-on threshold and supply current, this makes the optocouplers ideal for noise isolation and breaking up ground loops in these applications.

The RoHS-compliant devices offer maximum rated withstand isolation voltage up to 5000 V<sub>RMS</sub> and provide isolation distances from 5 mm to 10 mm to cover a wide range of requirements, including those of applications with working voltages exceeding 1000 V.

#### Device Specification Table:

Part #	VOH260A	VOIH060A	VOWH260A	VOH263A	VOIH063A
Channels	Single	Single	Single	Dual	Dual
Typ. I <sub>TH</sub> (mA)	2	2	2	2	2
Max. supply current (mA)	5	5	5	10	10
V <sub>ISO</sub> (V <sub>RMS</sub> )	5000	3750	5000	5000	3750
Isolation distance (mm)	7, 8	5	10	7, 8	5

Samples and production quantities of the high speed optocouplers are available now, with lead times of six weeks.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech**.<sup>®</sup> Vishay Intertechnology, Inc. is a Fortune 1,000 Company listed on the NYSE (VSH). More on Vishay at [www.Vishay.com](http://www.Vishay.com).

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**Vishay on Facebook:** <http://www.facebook.com/VishayIntertechnology>

**Vishay Twitter feed:** <http://twitter.com/vishayindust>

#### Links to product datasheets:

<http://www.vishay.com/ppg?280354> (VOH260A)

<http://www.vishay.com/ppg?280355> (VOH263A)

<http://www.vishay.com/ppg?280356> (VOIH060A)

<http://www.vishay.com/ppg?280357> (VOIH063A)

<http://www.vishay.com/ppg?284126> (VOWH260A)

#### Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720313190914>

#### For more information please contact:

Vishay Intertechnology  
Peter Henrici, +1 408 567-8400  
[peter.henrici@vishay.com](mailto:peter.henrici@vishay.com)

or

Redpines  
Bob Decker, +1 415 409-0233  
[bob.decker@redpinesgroup.com](mailto:bob.decker@redpinesgroup.com)



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