



# OPTOCOUPLER

## VOW135, VOW136, VOW137, VOW2611

### Widebody High-Isolation and High-Creepage 1 MBd and 10 MBd High-Speed Optocouplers



The VOW137 and VOW2611 expands Vishay's VOW Widebody high-isolation and high-creepage optocoupler family with a new series of 1 MBd and 10 MBd devices. Designed to increase reliability in high-voltage alternative energy and industrial applications, the VOW135, VOW136, VOW137 and VOW2611 provide a  $V_{IOTM}$  of 8000 V, a  $V_{IORM}$  of 1414 V, and an external creepage distance of greater than 10 mm. The VOW135 and VOW136 offer common mode transient immunity of 1000 V/ $\mu$ s and high- and low-level propagation delay of less than 2  $\mu$ s at a data rate of 1 MBd. The VOW137 and VOW2611 provide data rates up to 10 MBd and feature an internal Faraday shield, boosting common mode transient immunity up to 40,000 V/ $\mu$ s, while keeping high- and low-level propagation delay at less than 100 ns and high pulse width distortion less than 40 ns. This makes the devices perfectly suited for high-speed signal transmission and high-performance noise isolation, which are required to separate sensitive low-voltage areas from noisy high-voltage areas in high-power switching or CAT-IV applications.

#### KEY FEATURES

- $V_{IOTM}$  of 8000 V
- $V_{IORM}$  of 1414 V
- Creepage and clearance > 10 mm
- Typical CMR > 40 kV/ $\mu$ s
- -40 to +100 temperature range

#### KEY BENEFITS

- Complies with high industrial isolation distances
- Complies with high industrial working voltages
- Internal Faraday shield for very high input-to-output noise isolation required by high-power switching applications
- Provides high-performance isolation in a small package

#### RESOURCES

- Datasheets: [VOW135, VOW136](#), and [VOW137, VOW2611](#)
- For technical questions contact [optocoupleranswers@vishay.com](mailto:optocoupleranswers@vishay.com)
- Sales contact: [www.vishay.com/doc?99914](http://www.vishay.com/doc?99914)
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



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Discrete Semiconductors and Passive Components



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### KEY APPLICATIONS



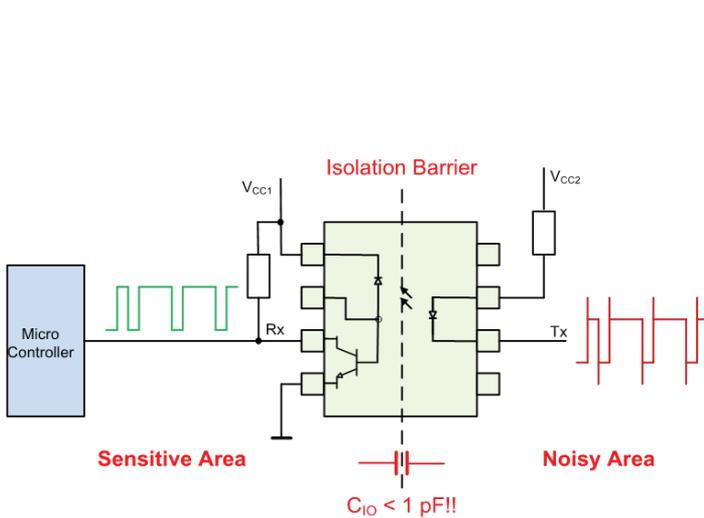
Industrial variable speed motor drives



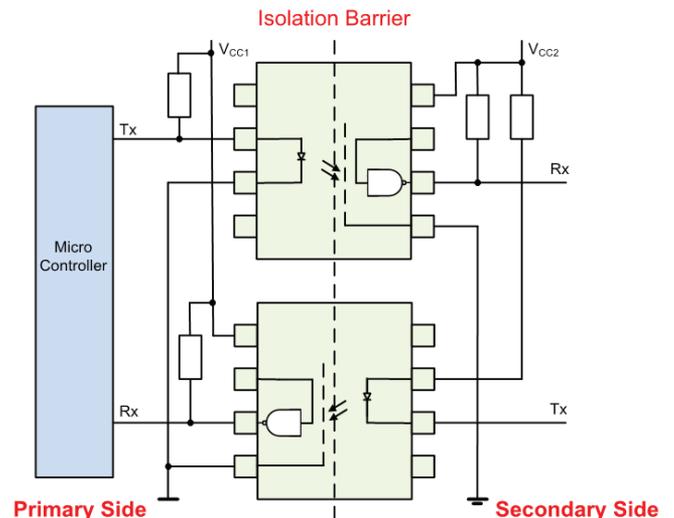
Solar/wind inverters



Smart metering



Noise Isolation of Sensitive Circuits

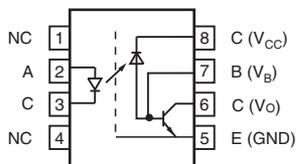


Isolated Industrial Communications

### SPECIFICATIONS

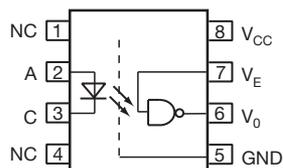
External creepage distance	> 10 mm
$V_{IOTM}$	8000 V
$V_{IORM}$	1414 V

#### VOW135 / VOW136



- High-speed data rate: 1 MBd
- Common mode transient immunity (CMR): 1.000 V/μs
- Propagation delay: ≤ 2 μs
- Supply voltage: up to 30 V
- -40 to +100 temperature range

#### VOW137 / VOW2611



- High-speed data rate: 10 MBd
- Common mode transient immunity (CMR): 40.000 V/μs (typ)
- Propagation delay: ≤ 0.1 μs
- -40 to +100 temperature range