OPTOCOUPLER

VOW3120

Widebody High-Isolation and High-Creepage 2.5 A IGBT Driver

Vishay's new family of widebody high-isolation and high-creepage IGBT drivers offers industrial designers a robust, economical, and easy to implement isolation IGBT driver solution for both safety and electrical noise isolation. The VOW3120-X017T provides a high isolation distance, boasting an external creepage > 10 mm between high voltage power circuitry and susceptible low voltage circuits. Additionally, these parts exhibit extreme isolation voltage specifications, with V_{IOTM} of 8000 V, and V_{IORM} of 1414 V. In addition to safety isolation, meeting all major domestic and global electrical safety standards, the VOW3120 IGBT drivers also exhibit high noise isolation capability by their extremely high CMR of 50 kV/µs typical.

KEY FEATURES

- V_{IOTM} of 8000 V
- V_{IORM} of 1414 V
- Creepage and clearance > 10 mm
- Typical CMR > 50 kV/µs
- Very low supply current < 2.5 mA

KEY BENEFITS

- Complies with high industrial isolation distances
- Complies with high industrial working voltages
- Isolates industrial power circuits from sensitive controls
- Provides high performance isolation in a small SMD package
- Saves system cost against discrete solutions

RESOURCES

- Datasheet: VOW3120 - www.vishay.com/doc?82442
- Technical questions contact: optocoupleranswers@vishay.com
- Sales contact: www.vishay.com/doc?99914
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free RoHS COMPLIANT

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

OPTOCOUPLER

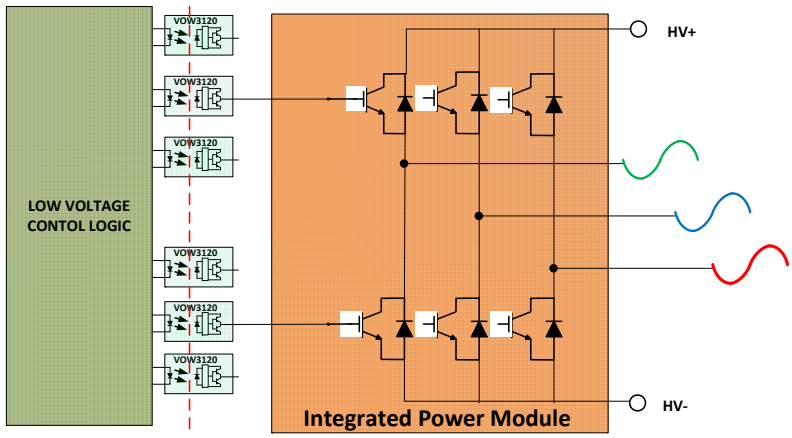
VOW3120

KEY APPLICATIONS

Industrial variable speed motor drives

Solar/wind inverters

Industrial welding



Typical IGBT Driver Application

KEY PERFORMANCE DATA

RATINGS SPECIFIED ACROSS OPERATING TEMPERATURE	
External creepage distance	> 10 mm
Typical common mode noise rejection	50 kV/µs
V_{IOTM}	8000 V
V_{IORM}	1414 V
Maximum propagation delay	500 ns
Maximum output drive current	2.5 A

TYPICAL PERFORMANCE CURVES

High Isolation with High Switching Speed