VISHAY
The DNA of tech.

VOWA617A, VOWA618A Phototransistor Optocouplers

Deliver High Isolation Voltage Ratings and Distance for EVs and Solar Inverters

AUTOMOTIVE GRADE

ADVANTAGE

Devices combine creepage and clearance distances of ≥ 11 mm, V_{IORM} of 1500 V_{peak}, and V_{IOWM} of 1060 V_{RMS}

KEY PRODUCT FEATURES

- ✓ High isolation voltage of 5300 V_{RMS} and V_{IOTM} of 8000 V_{peak}
- ✓ Widebody SMD-8 package with 600 CTI
- ✓ Wide CTR range from 50 % to 600 % at low input currents
- ✓ Phototransistor output with 80 V collector-emitter voltage rating
- ✓ Operating temperature from -40 °C to +125 °C
- ✓ AEC-Q102 qualified

MARKETS AND APPLICATIONS

MOBILITY

- Automotive electrification (e-powertrain)

ENERGY SECTOR

- Generation and exploration
- Storage

ADDITIONAL BENEFITS

- Designed to deliver signal transmission with high galvanic isolation for electric vehicles (EV) and solar inverters
- Offer the highest creepage distance in their class, delivering a ≥ 38 % higher safety margin than typical 8 mm solutions
- Intended for grid-connected on-board chargers (OBC), DC/DC converters, and battery management system (BMS) isolation stages

RESOURCES

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