

# VODA1275 Automotive Grade Photovoltaic MOSFET Driver

## Device Boosts Reliability and Lowers Costs in High Voltage Systems

**AUTOMOTIVE  
GRADE**



### ADVANTAGE

Delivers 20 V open circuit voltage, 20  $\mu$ A short circuit current, and 80  $\mu$ s turn-on time with CTI 600 mold compound and 8 mm creepage

### KEY PRODUCT FEATURES

- ✓ AEC-Q102 qualified
- ✓ Compact SMD-4 package (5.08 mm x 9.8 mm x 3.55 mm)
- ✓ Working isolation voltage: 1260 V<sub>peak</sub>
- ✓ Isolation test voltage: 5300 V<sub>RMS</sub>
- ✓ Turn-on time of 80  $\mu$ s is three times faster than competing devices
- ✓ Operating temperature from -40 °C to +125 °C



### MARKETS AND APPLICATIONS



#### MOBILITY

- Automotive electrification (e-powertrain)
- Micro mobility
- Transportation
- Agricultural equipment



#### ENERGY SECTOR

- Generation and exploration
- Storage



#### INDUSTRIAL

- Infrastructure

### ADDITIONAL BENEFITS

- The optically isolated VODA1275 draws all the current required to drive its internal circuitry from an infrared emitter on the low voltage side of the isolation barrier
- The driver enables the creation of custom solid-state relays to replace legacy electromechanical relays in next-generation vehicles

### RESOURCES

  
Order Samples

  
Infographics

  
Application Notes

  
Contact Us

  
3D Models

  
Product Page