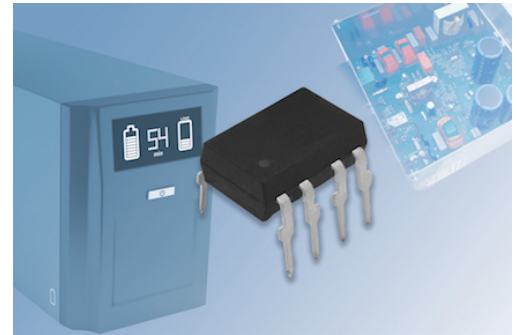


New VOD3120 2.5 A IGBT and MOSFET Driver Delivers Increased Efficiency for Inverter Stages, Features High Peak Output Current of 2.5 A

Product Benefits:

- Available in DIP-8 and SMD-8 packages
- Low voltage drop
- Low current consumption of 3.5 mA
- Consists of an AlGaAs LED optically coupled to an integrated circuit with a rail to rail output stage
- High isolation voltage ratings of $V_{IORM} = 891\text{ V}$ and $V_{IOTM} = 6000\text{ V}$
- Undervoltage lock-out (UVLO)
- Common mode transient immunity of 35 kV/ μs minimum
- Maximum propagation delay time of 0.5 μs
- RoHS-compliant
- Wide power supply range of 15 V to 30 V
- Industrial temperature range from -40 °C to +105 °C



Market Applications:

- Galvanic isolation for motor drives, solar inverters, switchmode power supplies (SMPS), induction stovetops, and uninterruptible power supplies (UPS)

The News:

Vishay Intertechnology broadens its optoelectronics portfolio with the introduction of a new 2.5 A IGBT and MOSFET driver. Available in DIP-8 and SMD-8 packages, the Vishay Semiconductors VOD3120A features low voltage drop on its output at a low current consumption of 3.5 mA to increase efficiency in inverter stages.

- Built on CMOS technology
- Rail to rail output stage provides the drive voltages required by gate-controlled devices
- Voltage and current supplied by the VOD3120 make it ideal for directly driving IGBTs with ratings up to 1200 V / 100 A
- UVLO protects IGBTs / MOSFETs from malfunction
- Common mode transient immunity helps to reduce noise issues from high to low voltage areas on the PCB

The Key Specifications:

- Minimum peak output current: 2.5 A
- Maximum supply current: 3.5 mA
- V_{IORM} : 891 V
- V_{IOTM} : 6000 V
- Maximum propagation delay time: 0.5 μs
- Power supply range: 15 V to 30 V
- Temperature range: -40 °C to +105 °C



NEW PRODUCT INFORMATION

Product Group: Vishay Semiconductors, Optoelectronics / **January 2019**



Availability:

Samples and production quantities of the VOD3120 are available now, with lead times of six weeks.

For the latest in all things opto — articles, videos, and products — visit Vishay's Opto Squad blog site:
www.vishayopto.com.

To access the product datasheet on the Vishay Website, go to
<http://www.vishay.com/ppg?84921> (VOD3120AB, VOD3120AD, VOD3120AG)

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