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New VO1263AB Dual Photovoltaic MOSFET Driver SSRs

The News:

Vishay Intertechnology, Inc. (NYSE: VSH) announces the release of a new solid state relay, a dual photovoltaic MOSFET driver that offers the highest open-circuit voltage and short-circuit current combination available on the market. When coupled with Vishay Siliconix MOSFETs, the new VO1263AB provides longer product life, higher reliability, and faster switching compared to equivalent electrical mechanical relay designs.

Features:

- Industry's best combination of open-circuit voltage and short-circuit current
- Open circuit voltage up to 14.6 V typical
- Short-circuit current up to 42 μ A typical
- Optical coupling provides a high isolation voltage of 5300 V
- Two LEDs optically coupled to two photodiode arrays provide a floating source with adequate voltage and current to drive a large breadth of low-voltage MOSFETs
- Solid state relay (SSR) construction, with superior performance and reliability compared to mechanical relays
- DIP-8 (VO1263AB) or SMD-8 (VO1263AAC, VO1263AACTR) package with lead (Pb)-free terminations



The Key Applications:

- MOSFET and SCR gate drive applications including high-side switches, power solid state relays, floating power supplies, and isolation amplifiers
- End products including isolated medical equipment, uninterruptible power supplies, consumer appliances, automated test equipment, switching equipment, and industrial controls



The Perspective:

Vishay's new dual photovoltaic MOSFET driver SSRs feature the highest combination of open-circuit voltage and short-circuit current available. The higher open circuit voltage allows the user to choose a wider range of low-voltage MOSFETs, while the higher short-circuit current decreases the time required to charge a MOSFET's gate. In combination, these features allow for the use of solid state designs rather than electrical mechanical relay designs in end products, resulting in longer product life, higher reliability, and faster switching.

The Key Benefits:

- High open-circuit voltage of 14.6 V typical allows circuit designers to choose from a wider range of low-voltage MOSFETs than lower open-circuit voltages
- High short-circuit current of 42 μ A typical charges a MOSFET gate faster than lower short-circuit currents
- The high open-circuit voltage and short-circuit current combination — highest on the market — allow for the use of solid state designs rather than electrical mechanical relay designs in end products
- SSR designs result in longer product life, higher reliability, and faster switching compared to EMR designs

Device Options

Ordering number	Package and format
VO1263AAC	SMD-8, tubes
VO1263AACTR	SMD-8, tape and reel
VO1263AB	DIP-8, tubes

Availability

Samples of the new VO1263Ax are available now, with production quantities scheduled for February. Lead times will be six to eight weeks for larger orders.

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