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New VO3062 and VO3063 Zero Crossing 1.5-kV/ μ s dV/dt Phototriacs

The News:

Vishay Intertechnology, Inc. (NYSE: VSH) today announced two new zero crossing 1.5-kV/ μ s dV/dt phototriacs designed to isolate low-voltage logic from AC voltages up to 380 V. The VO3063 requires a maximum trigger current of 5 mA to latch output, while the VO3062 requires a maximum trigger current of 10 mA. The devices are available in 6-pin DIP, 400-mil DIP, and SMD packages.

Features:

- 1.5-kV/ μ s dV/dt
- Isolates low-voltage logic from AC voltages up to 380 V
- Choice of maximum trigger current to latch output of 5 mA (VO3063) or 10 mA (VO3062)
- Optimized for noisy environments
- Rated with a 600-V blocking voltage and can provide isolation between DC and AC voltages on 120-V, 240-V, and 380-V AC lines, giving designers a 2X or better safety factor for control of off-line voltages up to 240 V
- Available in 6-pin DIP, 400-mil DIP, and SMD packages
- Direct replacements for industry standard 1.0-kV/ μ s dV/dt phototriacs



The Key Applications:

- Control of resistive, inductive, or capacitive loads including motors, solenoids, high-current thyristors, and relays
- Typical applications include refrigerators, HVAC equipment, dishwashers, vending machines, industrial controls, AC motor drives, switches, switching power supplies, and solenoid/valve controls



The Perspective

Vishay's new 1.5-kV/ μ s dV/dt zero-crossing phototriacs, which provide off-line control of AC voltages up to 380 V, can be used as direct replacements for industry-standard 1.0-kV/ μ s dV/dt phototriacs.

The Key Benefits:

- 1.5-kV/ μ s dV/dt performance
- Low maximum trigger current of 5 mA (VO3063) or 10 mA (VO3062) facilitates an easy interface with digital logic
- 600-V blocking voltage between DC and AC voltages on 120-V, 240-V, and 380-V AC lines, giving designers a 2X or better safety factor for control of off-line voltages up to 240 V
- Optimized for noisy environments

1.5-kV/ μ s Phototriacs: Summary Table

Zero-Crossing Part Number	Blocking Voltage (V_{DRM})	Trigger Input (I_{ft})
VO3063	600 V	5 mA
VO3062	600 V	10 mA

Availability

Samples and production quantities of the new VO3062 and VO3063 phototriacs are available now with lead times of six to eight weeks for larger orders.

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