

New 1 Form A Solid-State Relay Is Industry's First to Offer AEC-Q102 Qualification and a 100 V Load Voltage, Delivers Industry's Fastest Turn-On and Turn-Off Times of 0.1 ms Typical

Product Benefits:

- AEC-Q102 qualified
- 100 V load voltage
- Available in the low-profile SOP-4 package
- Fast turn-on and turn-off times of 0.1 ms typical
- High temperature operation to +125 °C
- Isolation voltage of 3750 V_{RMS}
- Provides clean, bounce-free switching
- Available in tape-and-reel packing
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

 Switching for glass dimming, lighting control, inverters, motor controls, and battery management systems (BMS) in electric (EV) and hybrid electric (HEV) vehicles; industrial motor drives and controls; security and automation systems; and telecom servers and datacenters

The News:

Vishay Intertechnology introduces the industry's first 1 Form A solid-state relay to offer AEC-Q102 qualification and a 100 V load voltage. Offered in the low profile SOP-4 package, the Vishay Semiconductors VORA1010M4 delivers the industry's fastest turn-on and turn-off times of 0.1 ms typical, in addition to the highest operating temperature to +125 °C.

The fast turn-off time of the optically isolated VORA1010M4 is a result of its integrated turn-off circuit, while its
combination of a state of the art infrared emitter and photovoltaic diode array delivers its fast turn-on time. This
switching performance makes the Automotive Grade solid-state relay ideal for safety-critical applications, while
its compact SOP-4 package saves space over competing solutions in the DIP-4 package

The Key Specifications:

Turn-on time: 0.1 ms typicalTurn-off time: 0.1 ms typical

Load voltage: 100 V
 Load current: 100 mA
 Isolation voltage: 3750 V_{RMS}



Availability:

Samples and production quantities of the VORA1010M4 are available now, with lead times of eight weeks.

To access the product datasheet on the Vishay Website, go to http://www.vishay.com/ppg?80152 (VORA1010M4)

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