



Vishay Intertechnology Releases 1500 V 1 Form A Solid-State Relay in 4-Pin SMD-8 Package for 800 V Battery Monitoring Systems

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AEC-Q102 Qualified Device Offers V_{IORM} of 1414 V_{peak} , Low Max. Leakage Current of 1 μA , and 5 mm Creepage Distance on Output Pins

MALVERN, Pa., Nov. 25, 2025 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced a new 1500 V Automotive Grade 1 Form A solid-state relay in a 4-pin SMD-8 package. Designed for 800 V battery monitoring systems in automotive, energy storage, and industrial applications, the Vishay Semiconductors [VORA1150](#) combines a high 1414 V_{peak} repetitive isolation voltage with a low maximum leakage current of 1 μA .

The innovative 4-pin design of the relay released today allows the device to provide a 5 mm creepage distance on its output pins, as required by the DIN EN-60644-1 standard for isolation monitoring applications in 800 V battery monitoring systems. In addition, the VORA1150 meets hipot test requirements for 800 V battery architectures in electric vehicles (EV).

The AEC-Q102 qualified device enables isolation and leakage current monitoring in battery management systems (BMS), pre-charge relays, and on-board chargers; energy storage systems (ESS); industrial HVAC systems; and solar panels. In these applications, the relay's high repetitive isolation voltage and mold material with a comparative tracking index (CTI) of 600 provide increased reliability, while low maximum turn-on and turn-off times of 150 μs and 250 μs , respectively, ensure fast operation.

RoHS-compliant, halogen-free, and Vishay Green, the VORA1150 offers an avalanche current capability of 0.9 mA, isolation test voltage of 5300 VRMS, and operating temperature range of -40 °C to +125 °C.

Samples and production quantities of the new 1 Form A solid-state relay are available now, with lead times of eight weeks.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech.**® Vishay Intertechnology, Inc. is a Fortune 1000 Company listed on the NYSE (VSH). More on Vishay at www.Vishay.com.

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Link to datasheet:

<http://www.vishay.com/ppg?80372> (VORA1150)

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