Vishay Intertechnology Phototransistor Optocouplers Deliver Accuracy and Energy Efficiency for Industrial Applications

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Devices Combine High, Linear CTR Range With Low Forward Current of 0.5 mA and High Temperature Operation to +125 °C in Four Package Options

MALVERN, Pa., Feb. 25, 2026 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced a new series of phototransistor optocouplers that combine a high and linear current transfer ratio (CTR) over temperature with a low forward current of 0.5 mA. Offering high temperature operation up to +125 °C in a choice of four packages — the DIL-4; long creepage LSOP-4; compact SOP-4; and half-pitch SSOP-4 — the Vishay Semiconductors VOx619A series is designed to deliver accuracy and energy efficiency in industrial applications.

Offering 50 % lower forward current than the previous-generation solution, the optocouplers released today reduce power consumption for more energy-efficient designs in micro mobility, industrial, energy metering, telecom, and consumer applications, in which they are optimized for signal transmission with galvanic and noise isolation in DC/DC converters, programmable controllers, and power supplies. They can also be used with devices that have limited current-driving capabilities, such as microcontrollers.

While CTR can drop to less than 50 % of the specified value at 25 °C for traditional optocouplers, it remains at > 75 % for the VOx619A series over its wide temperature range. This linear behavior ensures that signals are transmitted with high fidelity, which is crucial for applications requiring precise data handling. And while previous-generation solutions offered temperature ranges up to +110 °C — and traditional couplers are often only qualified to +85 °C — the extended temperature range of the VOx619A series guarantees reliable performance in extreme conditions.

VOx619A series devices feature an infrared emitting diode that is optically coupled to a phototransistor detector. Optocouplers in the DIL-4 and LSOP-4 packages offer a high maximum rated isolation voltage of 5000 VRMS and creepage and clearance distances of ≥ 7 mm and ≥ 8 mm, respectively. Devices in the SOP-4 and SSOP-4 provide more compact options to save board space, while offering voltage isolation of 3750 VRMS and creepage and clearance distances of ≥ 5 mm. The optocouplers are RoHS-compliant, halogen-free, and Vishay Green.

Device Specification Table:

Part #	VO619A	VOL619A	VOM619A	VOS619A
Package	DIL-4	LSOP-4	SOP-4	SSOP-4
Creepage distance	≥ 7 mm	≥ 8 mm	≥ 5 mm	
V_{ISO}	5000 V_{RMS}		3750 V_{RMS}	
Min. forward current	0.5 mA			
V_{CEO}	80 V			
Operating temp.	-55 °C to +125 °C			

Samples and production quantities of the VOx619A series 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.

Vishay on Facebook: http://www.facebook.com/VishayIntertechnology
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Links to product datasheets:
http://www.vishay.com/ppg?80521 (VOL619A)
http://www.vishay.com/ppg?80522 (VO619A)
http://www.vishay.com/ppg?80523 (VOM619A)
http://www.vishay.com/ppg?80524 (VOS619A)

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For more information please contact:
Vishay Intertechnology
Peter Henrici, +1 408 567-8400
peter.henrici@vishay.com
or
Redpines
Bob Decker, +1 415 409-0233
bob.decker@redpinesgroup.com