



VOIH72A 25 MBd Optocoupler Features Digital Input and Output to Simplify Designs and Lower Costs for Industrial Applications; Combines a Low 6 ns Pulse Width Distortion and Low Supply Current With High Temp. Operation to +110 °C

Product Benefits:

- CMOS logic digital input and output interface
- Low 6 ns maximum pulse width distortion
- Low 2 mA maximum output supply current
- Wide supply voltage range from 2.7 V to 5.5 V
- High temperature operation to +110 °C
- Small footprint SOIC-8 package
- Minimum common mode transient immunity (CMTI) of 20 kV/μs
- RoHS-compliant



Market Applications:

- Data communication, pulse width modulation, and providing high voltage safety in automation equipment, motor drives, and tools

The News:

Vishay Intertechnology introduces a new 25 MBd high speed optocoupler featuring a CMOS logic digital input and output interface for easy integration into digital systems.

- The VOIH72A utilizes a digitally controlled input LED driver with a high speed IRED, coupled with an integrated optical photodiode IC detector in a compact package
- The optocoupler's digital input and output eliminate the need for external driver stages and current limiting resistors, lowering system costs and enabling direct connection to microcontrollers to simplify designs
- Combined with its low supply current, the device's CMTI of 20 kV/μs makes the optocoupler ideal for galvanic noise isolation and breaking up ground loops, while reducing power consumption
- The VOIH72A is pin to pin compatible with competing solutions — while offering wider supply voltage and temperature ranges — making it a perfect replacement for new and existing designs

The Key Specifications:

- Channels: Single
- Package: SOIC-8
- Maximum pulse width distortion: 6 ns
- Maximum output supply current: 2 mA
- Supply voltage range: 2.7 V to 5.5 V
- Operating temperature range: -40 °C to +110 °C

Availability:



NEW PRODUCT INFORMATION



Product Group: Vishay Semiconductors, Optocouplers / May 2024

Samples and production quantities of the VOIH72A are available now, with lead times of six weeks for larger orders.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?80305> (VOIH72A)

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