

Digital Isolator CMOS 2-CH 16-Pin SOIC W Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-16
Product Type	Power Supplies
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM1234BRWZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADuM1234 is an isolated, half-bridge gate driver that employs the Analog Devices, Inc. iCoupler® technology to provide independent and isolated high-side and low-side outputs. Combining high speed CMOS and monolithic transformer technology, this isolation component provides outstanding performance characteristics superior to optocoupler-based solutions.

By avoiding the use of LEDs and photodiodes, this iCoupler gate drive device is able to provide precision timing characteristics not possible with optocouplers. Furthermore, the reliability and performance stability problems associated with optocoupler LEDs are avoided.

In comparison to gate drivers employing high voltage level translation methodologies, the ADuM1234 offers the benefit of true, galvanic isolation between the input and each output. Each output can be operated up to  $\pm 700$  VPEAK relative to the input, thereby supporting low-side switching to negative voltages. The differential voltage between the high side and low side can be as high as 700 VPEAK.

As a result, the ADuM1234 provides reliable control over the switching characteristics of IGBT/MOSFET configurations over a wide range of positive or negative switching voltages.

## Features

Isolated high-side and low-side outputs

High side or low side relative to input:  $\pm 700$  V peak

High-side/low-side differential: 700 V peak

0.1 A peak output current

CMOS input threshold levels

High frequency operation: 5 MHz maximum

High common-mode transient immunity:  $>75$  kV/ $\mu$ s

High temperature operation: 105°C

Wide body, RoHS-compliant, 16-lead SOIC

Safety and regulatory approvals

UL recognition 2500 V rms for 1 minute per UL 1577

VDE certificate of conformity DIN VDE V 0884-10 (VDE V>

## Application

Isolated IGBT/MOSFET gate drives

Plasma displays

Industrial inverters

Switching power supplies





### Related Products



[ADV7123KST140](#)

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QFP-48



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LGA-13



[ADUM3223CRZ](#)

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