

ADUM3223ARZ

Data Sheet

Isolator Interface IC Isolated Prec Half-Bridge Driver 4A Out

Manufacturers Analog Devices, Inc

Package/Case SOIC-16

Product Type Power Supplies

RoHS Rohs

Lifecycle

Please submit RFQ for ADUM3223ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

Images are for reference only

RFQ

General Description

The ADuM3223/ADuM4223 are 4 A isolated, half-bridge gatedrivers that employ the Analog Devices, Inc., iCoupler® technology to provide independent and isolated high-side and low-sideoutputs. The ADuM3223 provides 3000 V rms isolation in thenarrow body, 16-lead SOIC package, and the ADuM4223 provides 5000 V rms isolation in the wide body, 16-lead SOIC package. Combining high speed CMOS and monolithic transformer technology, these isolation components provide outstanding performance characteristics superior to the alternatives, such as the combination of pulse transformers and gate drivers.

The ADuM3223/ADuM4223 isolators each provide two independent isolated channels. They operate with an inputsupply ranging from 3.0 V to 5.5 V, providing compatibility with lower voltage systems. In comparison to gate drivers employinghigh voltage level translation methodologies, the ADuM3223/ADuM4223 offer the benefit of true, galvanic isolation between the input and each output. Each output may be continuously operated up to 537 V peak relative to the input, thereby supporting low-side switching to negative voltages. The differential voltagebetween the high-side and low-side may be as high as 800 V peak.

As a result, the ADuM3223/ADuM4223 provide reliable controlover the switching characteristics of IGBT/MOSFET configurations over a wide range of positive or negative switching voltages. Applications

Switching power supplies

Isolated IGBT/MOSFET gate drives

Industrial inverters

Automotive

Features Application

4 A peak output current Switching power supplies

Working voltage Isolated IGBT/MOSFET gate drives

Industrial inverters High-side or low-side relative to input: 537 V peak High-side to low-side differential: 800 V peak Automotive High frequency operation: 1 MHz maximum 3.3 V to 5 V CMOS input logic 4.5 V to 18 V output drive UVLO at 2.5 V VDD1 ADuM3223A/ADuM4223A UVLO at 4.1 V VDD2 ADuM3223B/ADuM4223B UVLO at 7.0 V VDD2 ADuM3223C/ADuM4223C UVLO at 11.0 V VDD2 Precise timing characteristics 54 ns maximum isolator and driver propagation delay 5 ns maximum channel-to-channel matching CMOS input logic levels High common-mode transient immunity:>25 kV/ μs Enhanced system-level ESD performance per IEC 61000-4-x High junction temperature operation: 125°C Thermal shutdown protection Default low output Safety and regulatory approvals ADuM3223 narrow-body, 16-lead SOIC UL recognition per UL 1577 3000 V rms for 1 minute SOIC long package CSA Component Acceptance Notice 5A VDE certificate of conformity DIN V VDE V 0884-10 (VDE V> Qualified for automotive applications

Ovaga Technologies Limited

Related Products



Apples Devices Inc

Analog Devices, Inc QFP-48



ADUM3223CRZ

Analog Devices, Inc SOIC-16



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Analog Devices, Inc TQFP44



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