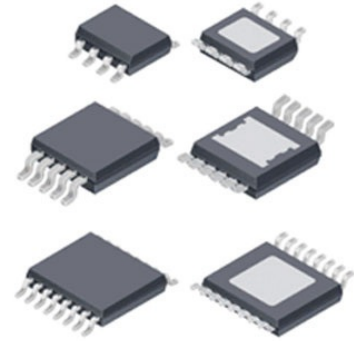


Driver 2.3A 1-OUT High Side/Low Side Inv/Non-Inv 6-Pin SOIC W Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOIC
Product Type	Gate and Power Driver
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM4120BRIZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADuM4120/ADuM4120-1 are 2 A isolated, single-channel drivers that employ Analog Devices, Inc., iCoupler® technology to provide precision isolation. The ADuM4120/ADuM4120-1 provide 5 kV rms isolation in the 6-lead wide body SOIC package with increased creepage. Combining high speed CMOS and monolithic transformer technology, these isolation components provide outstanding performance characteristics, such as the combination of pulse transformers and gate drivers.

The ADuM4120/ADuM4120-1 operate with input supplies ranging from 2.5 V to 6.5 V, providing compatibility with low voltage systems. In comparison to gate drivers employing high voltage level translation methodologies, the ADuM4120/ADuM4120-1 offer the benefit of true, galvanic isolation between the input and the output.

Options exist for models with and without an input glitch filter. The glitch filter helps reduce the chance of noise on the input pin triggering an output.

As a result, the ADuM4120/ADuM4120-1 provide reliable control over the switching characteristics of insulated gate bipolar transistor (IGBT)/metal-oxide semiconductor field effect transistor (MOSFET) configurations over a wide range of switching voltages.

Features

2.3 A peak output current ($<2 \Omega$ $R_{DS(on)}$)

2.5 V to 6.5 V VDD1 input

4.5V to 35 V VDD2 output

UVLO at 2.3 V VDD1

Multiple UVLO options on VDD2

Grade A—4.4 V (typical) positive going threshold

Grade B—7.3 V (typical) positive going threshold

Grade C—11.3 V (typical) positive going threshold

Precise timing characteristics

79 ns maximum isolator and driver propagation delay falling edge (ADuM4120)

CMOS input logic levels

High common-mode transient immunity: 150 kV/ μ s

High junction temperature operation: 125°C

Default low output

Safety and regulatory approvals (pending)

UL recognition per UL 1577

5 kV rms for 1 minute SOIC long package

CSA Component Acceptance Notice 5A

VDE certificate of conformity (pending)

DIN V VDE V 0884-10 (VDE V>

8 mm creepage

Wide body, 6-lead SOIC with increased creepage

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



[AD737JRZ](#)

Analog Devices, Inc
SOP-8

Application

Switching power supplies

IGBT/MOSFET gate drivers

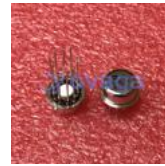
Industrial inverters

Gallium nitride (GaN)/silicon carbide (SiC) power devices



[ADP3367ARZ](#)

Analog Devices, Inc
SOIC-8



[AD636JH](#)

Analog Devices, Inc
TO-100-10



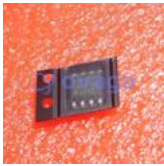
[ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc
SOT-23-6



[ADR434BRZ](#)

Analog Devices, Inc
SOIC-8



[ADR421ARZ](#)

Analog Devices, Inc
SOP-8



[ADR3412ARJZ-R7](#)

Analog Devices, Inc
SOT-23-6