

High Speed, Dual, 4 A MOSFET Driver with Thermal Protection

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	PMIC - MOSFET, Bridge Drivers - External Switch
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADP3624ARDZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADP362x/ADP363x is a family of high current and dual high speed drivers, capable of driving two independent N-channel power MOSFETs. The family uses the industry-standard foot-print but adds high speed switching performance and improved system reliability.

The family has an internal temperature sensor and provides two levels of overtemperature protection, an overtemperature warning, and an overtemperature shutdown at extreme junction temperatures.

The SD function, generated from a precise internal comparator, provides fast system enable or shutdown. This feature allows redundant overvoltage protection, complementing the protection inside the main controller device, or provides safe system shutdown in the event of an overtemperature warning. The wide input voltage range allows the driver to be compatible with both analog and digital PWM controllers. Digital power controllers are supplied from a low voltage supply, and the driver is supplied from a higher voltage supply. The ADP362x/ADP363x family adds UVLO and hysteresis functions, allowing safe startup and shutdown of the higher voltage supply when used with low voltage digital controllers.

The device family is available in thermally enhanced SOIC_N_EP and MINI_SO_EP packaging to maximize high frequency and current switching in a small printed circuit board (PCB) area.

Features

Industry-standard-compatible pinout

High current drive capability

Precise threshold shutdown comparator

UVLO with hysteresis

Overtemperature warning signal

Overtemperature shutdown

3.3 V-compatible inputs

10 ns typical rise time and fall time @ 2.2 nF load

Matched propagation delays between channels

Fast propagation delay

9.5 V to 18 V supply voltage (ADP3633/ADP3634/ADP3635)

4.5 V to 18 V supply voltage (ADP3623/ADP3624/ADP3625)

See data sheet for additional features

Application

AC-to-dc switch mode power supplies

DC-to-dc power supplies

Synchronous rectification

Motor drives

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



[ADP3367ARZ](#)

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SOIC-8



[ADP3330ARTZ3.3-RL7](#)

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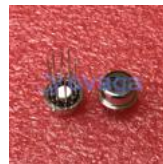
[ADR421ARZ](#)

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[AD737JRZ](#)

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