UCC27424P

Driver 4A 2-OUT Low Side Non-Inv 8-Pin PDIP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP8
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The UCC2742x family of high-speed dual MOSFET drivers can deliver large peak currents into capacitive loads. Three standard logic options are offered – dual-inverting, dual-noninverting, and one-inverting and one-noninverting driver. The thermally enhanced 8-pin PowerPAD MSOP package (DGN) drastically lowers the thermal resistance to improve long-term reliability. It is also offered in the standard SOIC-8 (D) or PDIP-8 (P) packages.

Using a design that inherently minimizes shoot-through current, these drivers deliver 4A of current where it is needed most at the Miller plateau region during the MOSFET switching transition. A unique BiPolar and MOSFET hybrid output stage in parallel also allows efficient current sourcing and sinking at low supply voltages.

The UCC2742x provides enable (ENB) functions to have better control of the operation of the driver applications. ENBA and ENBB are implemented on pins 1 and 8 which were previously left unused in the industry standard pin-out. They are internally pulled up to VDD for active high logic and can be left open for standard operation.

Key Features

Industry-Standard Pin-Out

Enable Functions for Each Driver

High Current Drive Capability of ±4 A

Unique BiPolar and CMOS True Drive Output

Stage Provides High Current at MOSFET Miller

Thresholds

TTL/CMOS Compatible Inputs Independent of

Supply Voltage

20-ns Typical Rise and 15-ns Typical Fall Times

with 1.8-nF Load

Typical Propagation Delay Times of 25 ns with

Input Falling and 35 ns with Input Rising

4-V to 15-V Supply Voltage

Dual Outputs Can Be Paralleled for Higher Drive

Current

Available in Thermally Enhanced MSOP

PowerPAD Package

Rated From –40°C to 125°C

Recommended For You

UCC28064ADR

Texas Instruments, Inc

SOP16

UC3637N

Texas Instruments, Inc

DIP-18

UCC27517DBVR

Texas Instruments, Inc

SOT23-5

UCC2946TPWRQ1

Texas Instruments, Inc

TSSOP8

UCC28730QDRQ1

Texas Instruments, Inc

SOP7

UCC21222QDRQ1

Texas Instruments, Inc

SOP16

UCD9090QRGZRQ1

Texas Instruments, Inc

VQFN-48

UCC27531QDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC27511AQDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC2803QDRQ1

Texas Instruments, Inc

SOP8

UCC28951QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC21320QDWKRQ1

Texas Instruments, Inc

SOIC-14

UCC27322QDGNRQ1

Texas Instruments, Inc

HVSSOP-8

UCC28950QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC2808AQDR-2Q1

Texas Instruments, Inc

SOP8