
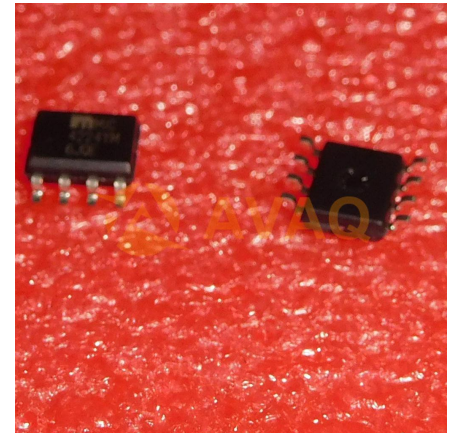


Driver 4A 2-OUT Low Side Non-Inv 8-Pin SOIC N Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP8
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MIC4223/MIC4224/MIC4225 are a family of a dual 4A, high-speed, low-side MOSFET drivers with logic-level driver enables. The devices are fabricated on Bipolar/CMOS/DMOS (BCD) process and operate from a 4.5V to 18V supply voltage. The devices parallel Bipolar and CMOS output stage architecture provides high current throughout the MOSFETs Miller Region allowing the driver to sink and source 4A of peak current from a 12V supply and quickly charge and discharge a 2000pF load capacitance in under 15ns, while allowing the outputs to swing within 0.3V of V_{DD} and 0.16V of ground. The MIC4223/MIC4224/MIC4225 driver and enable inputs feature TTL and CMOS logic-level thresholds which are independent of supply voltage. Each driver features a dedicated active-high enable input which is internally pulled high to V_{DD} through 100kΩ, allowing the pins to be left unconnected if it is not required to disable the driver outputs. The driver inputs have been designed to protect against ground bounce and are protected to withstand -5V of voltage swing at -40mA. Driver outputs are also protected to withstand 500mA of reverse current. The MIC4223/MIC4224/MIC4225 are available in three configurations using industry standard pin out; dual inverting (MIC4223), dual non-inverting (MIC4224) and complimentary (MIC4225). They are available in 8-pin SOIC and thermally enhanced ePADD 8-pin MSOP and support operating junction temperatures from -40°C to +125°C.

Key Features

4.5V to 18V supply voltage operating range

High peak source/sink current

15ns/15ns rise and fall times with 2000pF load

25ns/35ns (rising/falling) input propagation delay

20ns/45ns (rising/falling) enable propagation delay

Active-high driver enable inputs with 100k Ω pull-ups

CMOS and TTL logic input and enable thresholds independent of supply voltage

Driver input protection to -5V at -40mA

Output latch-up protection to >500mA reverse current

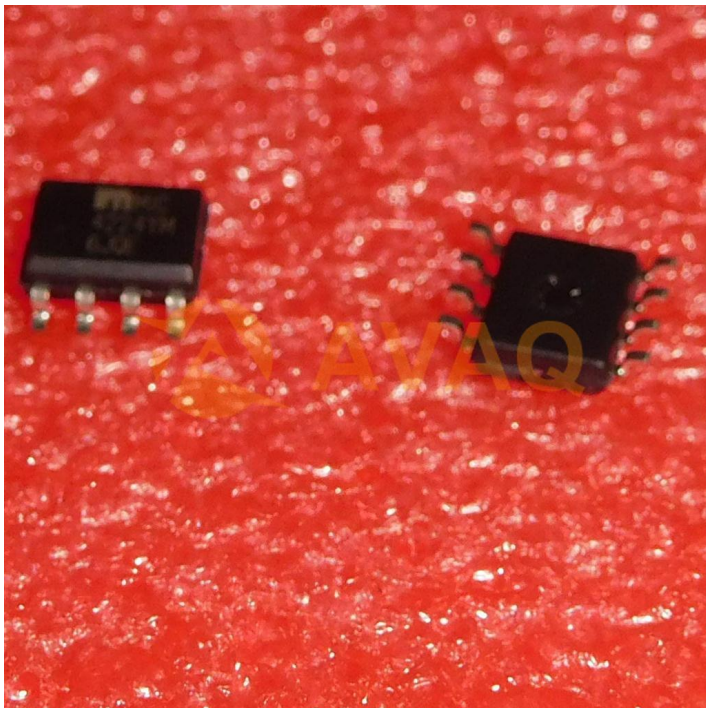
Industry standard pin out with two package options

ePad MSOP-8 ($\theta_{JA} = 60^{\circ}\text{C/W}$)

8-pin SOIC ($\theta_{JA} = 120^{\circ}\text{C/W}$)

Available in dual-inverting (MIC4223), dual non-inverting (MIC4224) and complementary (MIC4225)

Dual output drive by paralleling channels



Recommended For You

MIC4451YN

Microchip Technology, Inc

DIP8

MIC4427YN

Microchip Technology, Inc

DIP8

MIC4427YM

Microchip Technology, Inc

SOP-8

MIC2954-02WS

Microchip Technology, Inc
SOT223

MIC2951-02YM

Microchip Technology, Inc
SOP-8

MIC4452ZT

Microchip Technology, Inc
TO-220-5

MIC5013YN

Microchip Technology, Inc
PDIP-8

MIC2582-MYM

Microchip Technology, Inc
SOP-8

MIC4123YME

Microchip Technology, Inc
SOP-8

MIC2951-02YM-TR

Microchip Technology, Inc
SOIC-8

MIC4422ZM

Microchip Technology, Inc
SOP8

MIC49150WR

Microchip Technology, Inc
SPAK-5

MIC2506YM

Microchip Technology, Inc
SOP-8

MIC49300WR

Microchip Technology, Inc
S-PAK-5

MIC94082YFT-TR

Microchip Technology, Inc
TMLF-4