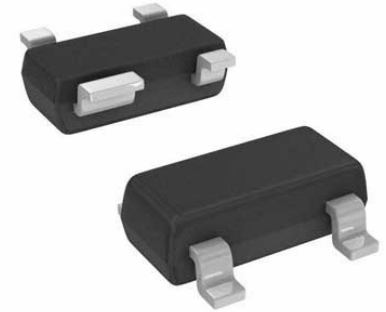


Driver 1.2A 1-OUT Low Side Non-Inv 4-Pin SOT-143 T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOT143

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC4416 and MIC4417 IttyBitty® low-side MOSFET drivers are designed to switch an N-Channel enhancement-type MOSFET from a TTL-compatible control signal in low-side switch applications. The MIC4416 is noninverting and the MIC4417 is inverting. These drivers feature short delays and high peak current to produce precise edges and rapid rise and fall times. Their tiny 4-lead SOT-143 package uses minimum space. The MIC4416/7 is powered from a +4.5V to +18V supply voltage. The on-state gate drive output voltage is approximately equal to the supply voltage (no internal regulators or clamps). High supply voltages, such as 10V, are appropriate for use with standard N-Channel MOSFETs. Low supply voltages, such as 5V, are appropriate for use with logic-level N-Channel MOSFETs. In a low-side configuration, the driver can control a MOSFET that switches any voltage up to the rating of the MOSFET. The MIC4416 is available in the SOT-143 package and is rated for -40°C to +85°C ambient temperature range.

Key Features

Low steady-state supply current

50µA typical, control input low

370µA typical, control input high

1.2A nominal peak output

3.5Ω typical output resistance at 18V supply

7.8Ω typical output resistance at 5V supply

25mV maximum output offset from supply or ground

Operates in low-side switch circuits

TTL-compatible input withstands -20V

ESD protection

Inverting and noninverting versions

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

MIC4224YM

Microchip Technology, Inc
SOP8

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