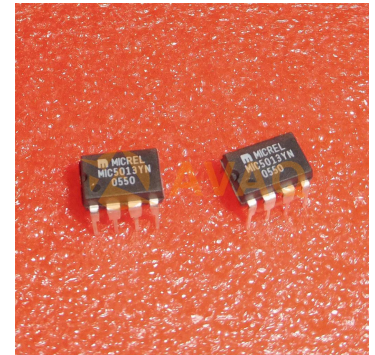


Driver 0.225A 1-OUT High Side/Low Side Half Brdg Non-Inv 8-Pin PDIP Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: PDIP-8

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MIC5013 is an 8-pin MOSFET driver with over-current shutdown and a fault flag. It is designed to drive the gate of an N-channel power MOSFET above the supply rail high-side power switch applications. The MIC5013 is compatible with standard or current-sensing power MOSFETs in both high- and low-side driver topologies.

The MIC5013 charges a 1nF load in 60μs typical and protects the MOSFET from over-current conditions. The current sense trip point is fully programmable and a dynamic threshold allows high in-rush current loads to be started. A fault pin indicates when the MIC5013 has turned off the FET due to excessive current.

Other members of the driver family include the MIC5011 minimum parts count driver and MIC5012 dual driver.

Key Features

Less than 1μA current in the "off" state

Internal zener clamp for gate protection

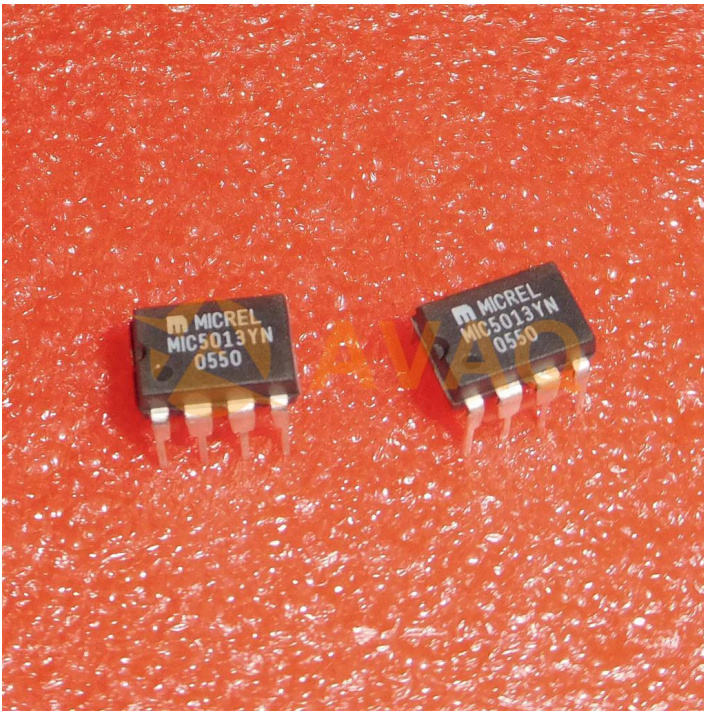
60μs typical turn-on time to 50% gate overdrive

Programmable over-current sensing

Dynamic current threshold for high in-rush loads

Fault output pin indicates current faults

Implements high- or low-side switches



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

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

MIC94082YFT-TR

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TMLF-4