

Driver 13A 1-OUT Low Side Non-Inv Automotive 5-Pin(5+Tab) TO-220 Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: TO-220-5

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TC4451/52 are single-output MOSFET Drivers, which are high-current buffer/drivers capable of driving large MOSFETs and Insulated Gate Bipolar Transistors (IGBT). Their high drive current of over 12A is capable of driving some of the largest power transistors in use today. The TC4451/2 have matched leading and falling-edge propagation delay times and have very low cross-conduction current to minimize the overall power dissipation of the device. They will not latch up under any conditions within their power and voltage ratings. They are not subject to damage when up to 5V of noise spiking (of either polarity) occurs on the ground pin. They can accept, without damage or logic upset, more than 1500 mA of reverse current (of either polarity) being forced back into their outputs. Additionally, all terminals are fully protected against up to 4kV of electrostatic discharge.

Key Features

Low Shoot-Through/Cross-Conduction in Output Stage

High Peak Output Current: 13A (typ)

High Continuous Output Current: 2.6A (max)

Wide Input Voltage Supply Range: 4.5V-18V.

Matched Fast Rise and Fall Times:

21 ns with 10,000pF load

42 ns with 22,000 pF Load

Latch-up Protection to Withstand 1.5A Output Reverse Current

Pin-Compatible with the TC4421/22, TC4421A/22A, and TC4420/29

Space-Saving, Thermally-Enhanced, 8-Pin DFN Package

Recommended For You

TC7660COA

Microchip Technology, Inc
SOP8

TC54VC3002ECB713

Microchip Technology, Inc
SOT-23

TC4428ACOA

Microchip Technology, Inc
SOP8

TC429CPA

Microchip Technology, Inc
DIP8

TC4420EPA

Microchip Technology, Inc
DIP8

TC1232CPA

Microchip Technology, Inc
DIP8

TC1232COA

Microchip Technology, Inc
SOP-8

TC4427AEP

Microchip Technology, Inc
DIP8

TC4421CAT

Microchip Technology, Inc
TO220-5

TC4420CPA

Microchip Technology, Inc
DIP8

TC4422EPA

Microchip Technology, Inc
DIP8

TC1232EOA

Microchip Technology, Inc
SOP-8

TC1240AECR

Microchip Technology, Inc
SOT23-6

TC4421CPA

Microchip Technology, Inc
DIP8

TC4420COA

Microchip Technology, Inc
SOP-8