

**Driver 6A 1-OUT Low Side Non-Inv Automotive 8-Pin CDIP Tube**

Images are for reference only

[Inquiry](#)**Manufacturer:** [Microchip Technology, Inc](#)**Package/Case:** DIP**Product Type:** Drivers**Lifecycle:** Active**General Description**

The TC4420/4429 are 6A (peak), single output MOSFET drivers. The TC4429 is an inverting driver (pin-compatible with the TC429), while the TC4420 is a non-inverting driver. These drivers are fabricated in CMOS for lower power, more efficient operation versus bipolar drivers. Both devices have TTL-compatible inputs, which can be driven as high as  $V_{DD} + 0.3V$  or as low as  $-5V$  without upset or damage to the device. This eliminates the need for external level shifting circuitry and its associated cost and size. The output swing is rail-to-rail ensuring better drive voltage margin, especially during power up/power down sequencing. Propagational delay time is only 55nsec (typ.) and the output rise and fall times are only 25nsec (typ.) into 2500pF across the usable power supply range. Unlike other drivers, the TC4420/4429 are virtually latch-up proof. They replace three or more discrete components saving PCB area, parts and improving overall system reliability.

For product comparison, please consider: MCP1407

**Key Features**

Latch-Up Protected Will Withstand  $>1.5A$  Reverse Output Current

Logic Input Will Withstand Negative Swing Up to 5V

Matched Rise and Fall Times: 25nsec

High Peak Output Current: 6A Peak

Wide Operating Range: 4.5V to 18V

High Capacitive Load Drive: 10,000pF

Short Delay Time: 55nsec Typ.

Logic High Input, Any Voltage: 2.4V to VDD

Low Supply Current With Logic '1' Input: 450  $\mu A$

Low Output Impedance: 2.5 $\Omega$

Output Voltage Swing to Within 25mV of Ground or VDD

## Recommended For You

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### 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

### TC4427AEPA

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

### TC1240AECHIR

Microchip Technology, Inc  
SOT23-6

### TC4421CPA

Microchip Technology, Inc  
DIP8

### TC4420COA

Microchip Technology, Inc  
SOP-8