



MICROCHIP TC4423A/TC4424A/TC4425A

3A Dual High-Speed Power MOSFET Drivers

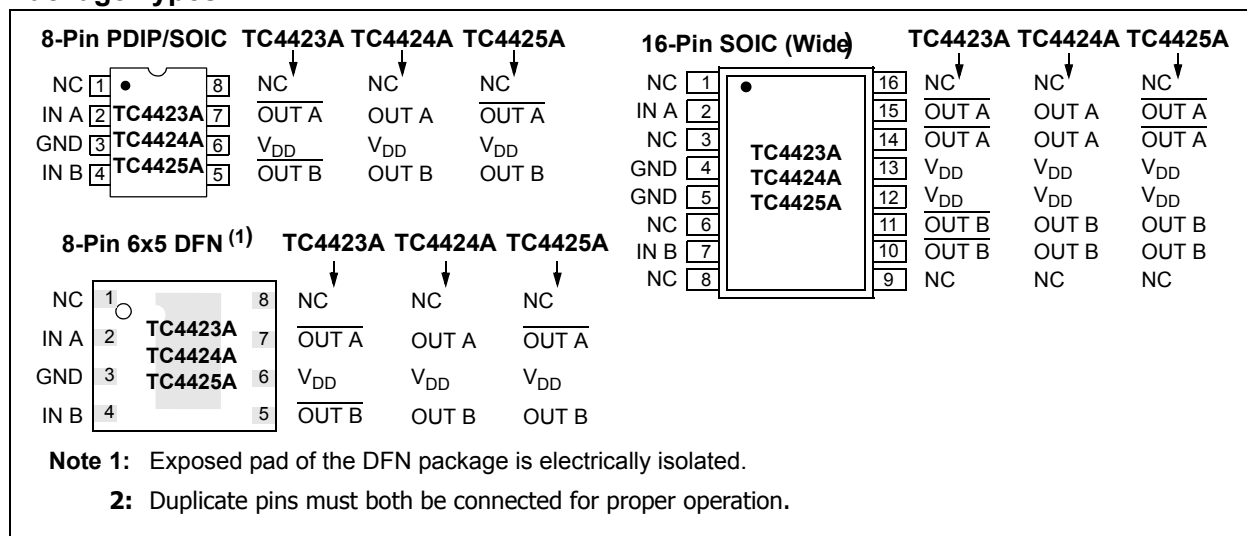
Features

- High Peak Output Current: 4.5A (typical)
- Wide Input Supply Voltage Operating Range:
 - 4.5V to 18V
- High Capacitive Load Drive Capability:
 - 1800 pF in 12 ns
- Short Delay Times: 40 ns (typical)
- Matched Rise/Fall Times
- Low Supply Current:
 - With Logic '1' Input – 1.0 mA (maximum)
 - With Logic '0' Input – 150 μ A (maximum)
- Low Output Impedance: 2.5 Ω (typical)
- Latch-Up Protected: Will Withstand 1.5A Reverse Current
- Logic Input Will Withstand Negative Swing Up To 5V
- Pin compatible with the TC4423/TC4424/TC4425 and TC4426A/TC4427A/TC4428A devices
- Space-saving 8-Pin 150 mil body SOIC and 8-Pin 6x5 DFN Packages

Applications

- Switch Mode Power Supplies
- Pulse Transformer Drive
- Line Drivers
- Direct Drive of Small DC Motors

Package Types



General Description

The TC4423A/TC4424A/TC4425A devices are a family of dual-output 3A buffers/MOSFET drivers. These devices are improved versions of the earlier TC4423/TC4424/TC4425 dual-output 3A driver family. This improved version features higher peak output current drive capability, lower shoot-through current, matched rise/fall times and propagation delay times. The TC4423A/TC4424A/TC4425A devices are pin-compatible with the existing TC4423/TC4424/TC4425 family. An 8-pin SOIC package option has been added to the family. The 8-pin DFN package option offers increased power dissipation capability for driving heavier capacitive or resistive loads.

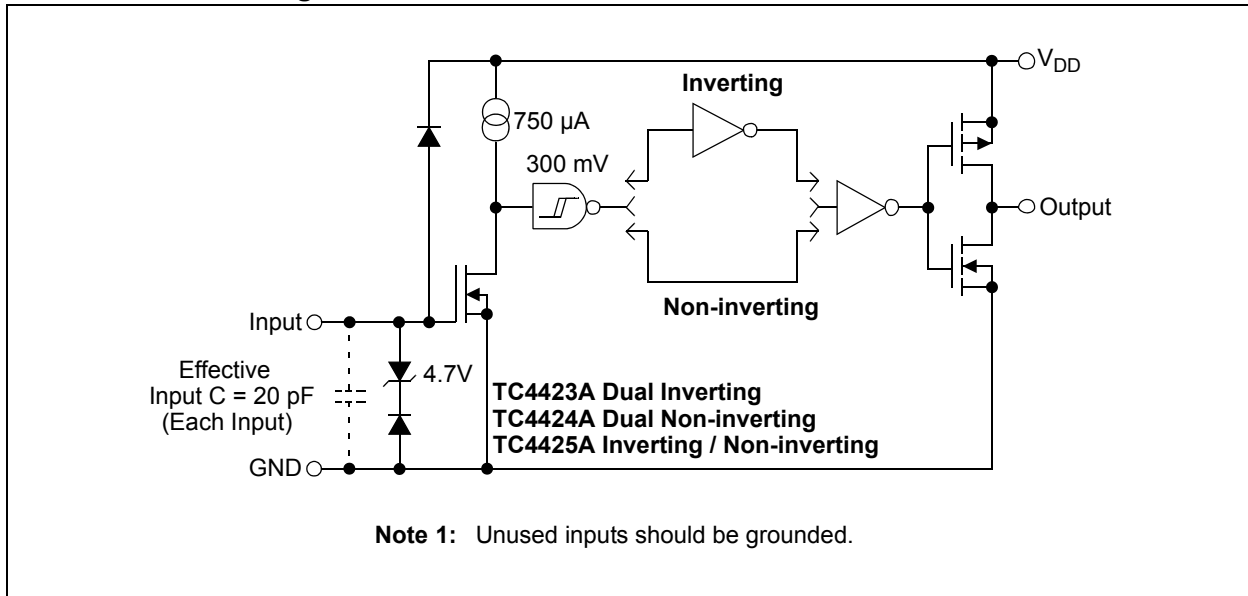
The TC4423A/TC4424A/TC4425A MOSFET drivers can easily charge and discharge 1800 pF gate capacitance in under 20 ns, provide low enough impedances in both the on and off states to ensure the MOSFET's intended state will not be affected, even by large transients.

The TC4423A/TC4424A/TC4425A inputs may be driven directly from either TTL or CMOS (2.4V to 18V). In addition, the 300 mV of built-in hysteresis provides noise immunity and allows the device to be driven from slow rising or falling waveforms.

The TC4423A/TC4424A/TC4425A dual-output 3A MOSFET driver family is offered with a -40°C to +125°C temperature rating, making it useful in any wide temperature range application.

TC4423A/TC4424A/TC4425A

Functional Block Diagram⁽¹⁾



TC4423A/TC4424A/TC4425A

1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

| | |
|--|--|
| Supply Voltage | +20V |
| Input Voltage, IN A or IN B | (V _{DD} + 0.3V) to (GND – 5V) |
| Package Power Dissipation (T _A =50°C) | |
| 8L PDIP | 1.2W |
| 8L SOIC..... | 0.61W |
| 16L SOIC..... | 1.1W |
| 8L DFN..... | Note 3 |

† **Notice:** Stresses above those listed under "Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational sections of this specification is not intended. Exposure to maximum rating conditions for extended periods may affect device reliability.

DC CHARACTERISTICS (NOTE 2)

| Electrical Specifications: Unless otherwise indicated, T _A = +25°C, with 4.5V ≤ V _{DD} ≤ 18V. | | | | | | |
|---|------------------|-------------------------|------|----------------------|-------|--|
| Parameters | Sym | Min | Typ | Max | Units | Conditions |
| Input | | | | | | |
| Logic '1', High Input Voltage | V _{IH} | 2.4 | 1.5 | — | V | |
| Logic '0', Low Input Voltage | V _{IL} | — | 1.3 | 0.8 | V | |
| Input Current | I _{IN} | –1 | — | 1 | μA | 0V ≤ V _{IN} ≤ V _{DD} |
| Input Voltage | V _{IN} | –5 | — | V _{DD} +0.3 | V | |
| Output | | | | | | |
| High Output Voltage | V _{OH} | V _{DD} – 0.025 | — | — | V | DC Test |
| Low Output Voltage | V _{OL} | — | — | 0.025 | V | DC Test |
| Output Resistance, High | R _{OH} | — | 2.2 | 3.0 | Ω | I _{OUT} = 10 mA, V _{DD} = 18V |
| Output Resistance, Low | R _{OL} | — | 2.8 | 3.5 | Ω | I _{OUT} = 10 mA, V _{DD} = 18V |
| Peak Output Current | I _{PK} | — | 4.5 | — | A | 10V ≤ V _{DD} ≤ 18V (Note 2) |
| Latch-Up Protection Withstand Reverse Current | I _{REV} | — | >1.5 | — | A | Duty cycle ≤ 2%, t ≤ 300 μsec. |
| Switching Time (Note 1) | | | | | | |
| Rise Time | t _R | — | 12 | 21 | ns | Figure 4-1, Figure 4-2, C _L = 1800 pF |
| Fall Time | t _F | — | 12 | 21 | ns | Figure 4-1, Figure 4-2, C _L = 1800 pF |
| Delay Time | t _{D1} | — | 40 | 48 | ns | Figure 4-1, Figure 4-2, C _L = 1800 pF |
| Delay Time | t _{D2} | — | 41 | 48 | ns | Figure 4-1, Figure 4-2, C _L = 1800 pF |
| Power Supply | | | | | | |
| Supply Voltage | V _{DD} | 4.5 | — | 18 | V | |
| Power Supply Current | I _S | — | 1.0 | 2.0 | mA | V _{IN} = 3V (Both inputs) |
| | I _S | — | 0.15 | 0.25 | mA | V _{IN} = 0V (Both inputs) |

Note 1: Switching times ensured by design.

2: Tested during characterization, not production tested.

3: Package power dissipation is dependent on the copper pad area on the PCB.

TC4423A/TC4424A/TC4425A

DC CHARACTERISTICS (OVER OPERATING TEMPERATURE RANGE)

| Electrical Specifications: Unless otherwise indicated, operating temperature range with $4.5V \leq V_{DD} \leq 18V$. | | | | | | |
|---|----------|------------------|-----|-------|----------|--|
| Parameters | Sym | Min | Typ | Max | Units | Conditions |
| Input | | | | | | |
| Logic '1', High Input Voltage | V_{IH} | 2.4 | — | — | V | |
| Logic '0', Low Input Voltage | V_{IL} | — | — | 0.8 | V | |
| Input Current | I_{IN} | -10 | — | +10 | μA | $0V \leq V_{IN} \leq V_{DD}$ |
| Output | | | | | | |
| High Output Voltage | V_{OH} | $V_{DD} - 0.025$ | — | — | V | |
| Low Output Voltage | V_{OL} | — | — | 0.025 | V | |
| Output Resistance, High | R_{OH} | — | 3.1 | 6 | Ω | $I_{OUT} = 10 \text{ mA}, V_{DD} = 18V$ |
| Output Resistance, Low | R_{OL} | — | 3.7 | 7 | Ω | $I_{OUT} = 10 \text{ mA}, V_{DD} = 18V$ |
| Switching Time (Note 1) | | | | | | |
| Rise Time | t_R | — | 20 | 31 | ns | Figure 4-1, Figure 4-2, $C_L = 1800 \text{ pF}$ |
| Fall Time | t_F | — | 22 | 31 | ns | Figure 4-1, Figure 4-2, $C_L = 1800 \text{ pF}$ |
| Delay Time | t_{D1} | — | 50 | 66 | ns | Figure 4-1, Figure 4-2, $C_L = 1800 \text{ pF}$ |
| Delay Time | t_{D2} | — | 50 | 66 | ns | Figure 4-1, Figure 4-2, $C_L = 1800 \text{ pF}$ |
| Power Supply | | | | | | |
| Power Supply Current | I_S | — | 2.0 | 3.0 | mA | $V_{IN} = 3V$ (Both inputs) $V_{IN} = 0V$ (Both inputs) |

Note 1: Switching times ensured by design.

TEMPERATURE CHARACTERISTICS

| Electrical Specifications: Unless otherwise noted, all parameters apply with $4.5V \leq V_{DD} \leq 18V$. | | | | | | |
|--|---------------|-----|------|------|---------------|--|
| Parameters | Sym | Min | Typ | Max | Units | Conditions |
| Temperature Ranges | | | | | | |
| Specified Temperature Range (V) | T_A | -40 | — | +125 | $^{\circ}C$ | |
| Maximum Junction Temperature | T_J | — | — | +150 | $^{\circ}C$ | |
| Storage Temperature Range | T_A | -65 | — | +150 | $^{\circ}C$ | |
| Package Thermal Resistances | | | | | | |
| Thermal Resistance, 8L-6x5 DFN | θ_{JA} | — | 33.2 | — | $^{\circ}C/W$ | Typical four-layer board with vias to ground plane |
| Thermal Resistance, 8L-PDIP | θ_{JA} | — | 84.6 | — | $^{\circ}C/W$ | |
| Thermal Resistance, 8L-SOIC | θ_{JA} | — | 163 | — | $^{\circ}C/W$ | |
| Thermal Resistance, 16L-SOIC | θ_{JA} | — | 90 | — | $^{\circ}C/W$ | |

TC4423A/TC4424A/TC4425A

2.0 TYPICAL PERFORMANCE CURVES

Note: The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.

Note: Unless otherwise indicated, $T_A = +25^\circ\text{C}$ with $4.5\text{V} \leq V_{DD} \leq 18\text{V}$.

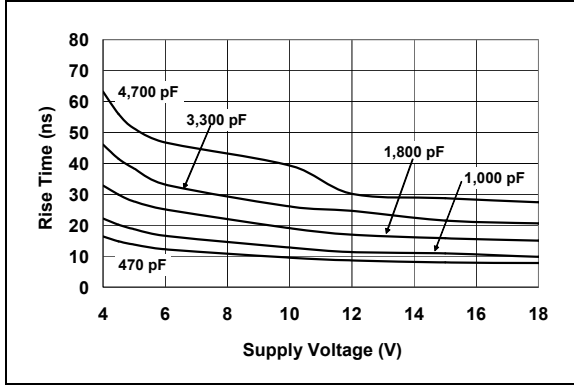


FIGURE 2-1: Rise Time vs. Supply Voltage.

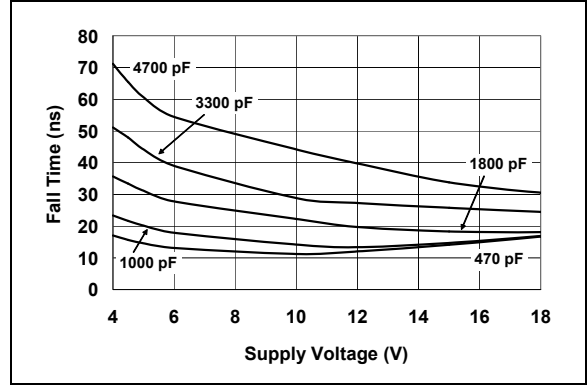


FIGURE 2-4: Fall Time vs. Supply Voltage.

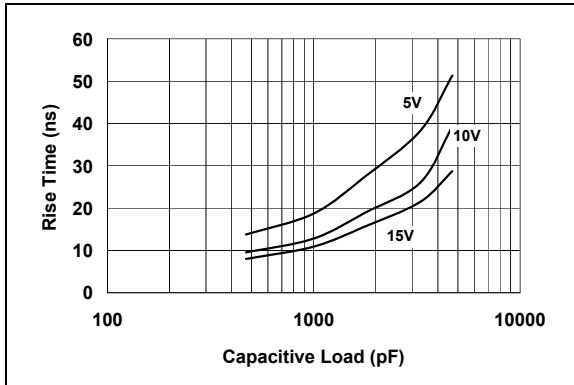


FIGURE 2-2: Rise Time vs. Capacitive Load.

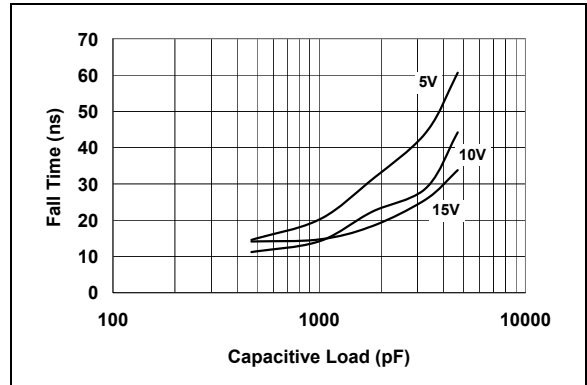


FIGURE 2-5: Fall Time vs. Capacitive Load.

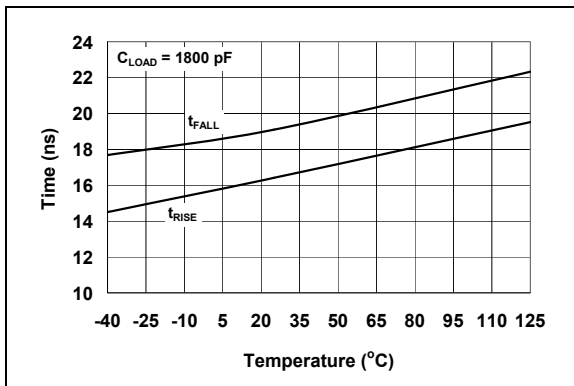


FIGURE 2-3: Rise and Fall Times vs. Temperature.

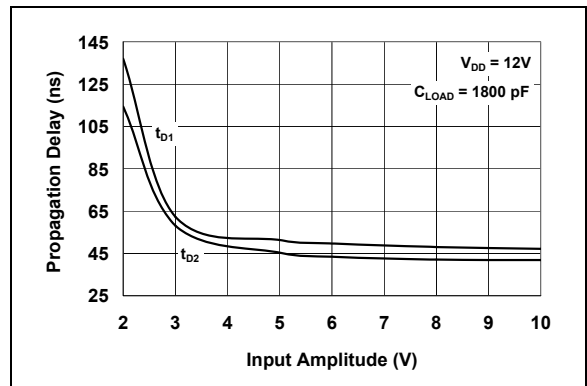


FIGURE 2-6: Propagation Delay vs. Input Amplitude.

TC4423A/TC4424A/TC4425A

Typical Performance Curves (Continued)

Note: Unless otherwise indicated, $T_A = +25^\circ\text{C}$ with $4.5\text{V} \leq V_{DD} \leq 18\text{V}$.

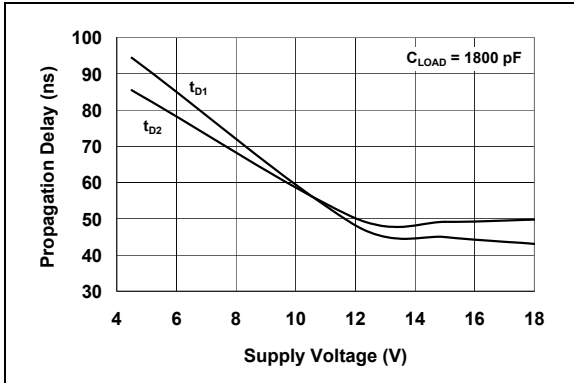


FIGURE 2-7: Propagation Delay Time vs. Supply Voltage.

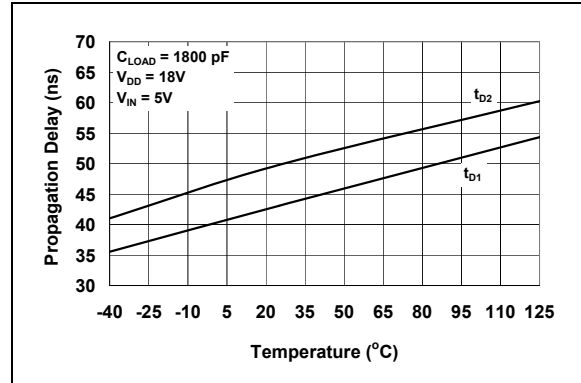


FIGURE 2-10: Propagation Delay Time vs. Temperature.

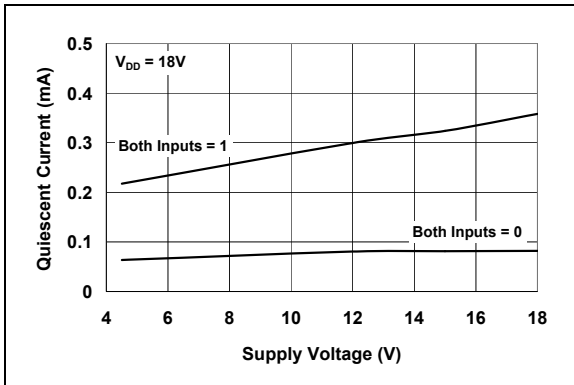


FIGURE 2-8: Quiescent Current vs. Supply Voltage.

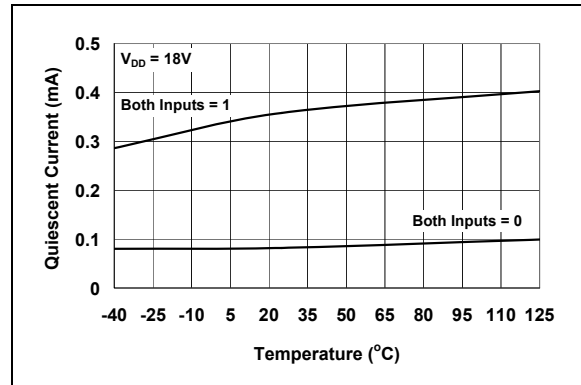


FIGURE 2-11: Quiescent Current vs. Temperature.

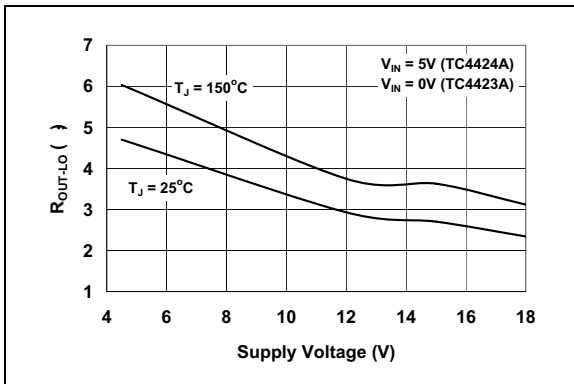


FIGURE 2-9: Output Resistance (Output Low) vs. Supply Voltage.

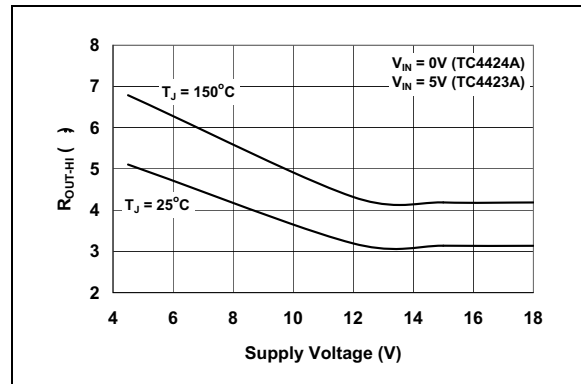


FIGURE 2-12: Output Resistance (Output High) vs. Supply Voltage.

TC4423A/TC4424A/TC4425A

Typical Performance Curves (Continued)

Note: Unless otherwise indicated, $T_A = +25^\circ\text{C}$ with $4.5\text{V} \leq V_{DD} \leq 18\text{V}$.

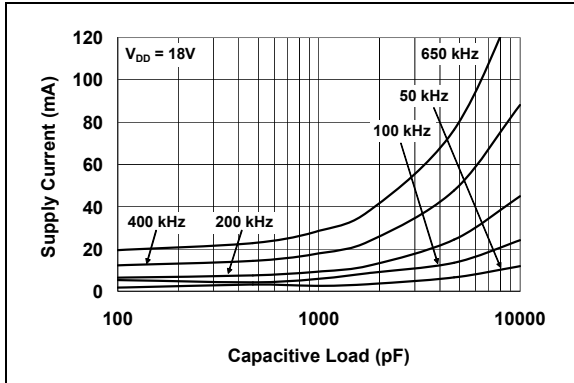


FIGURE 2-13: Supply Current vs. Capacitive Load.

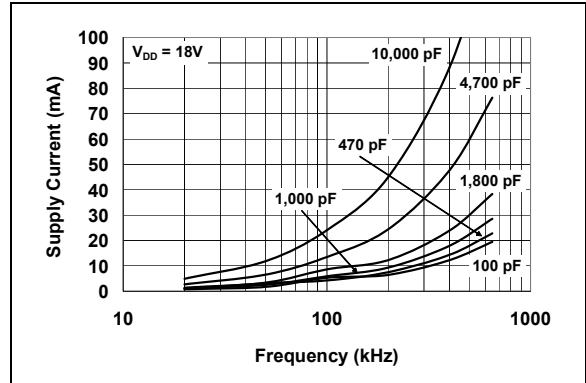


FIGURE 2-16: Supply Current vs. Frequency.

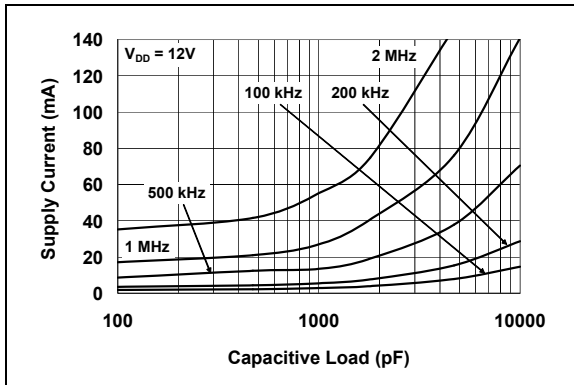


FIGURE 2-14: Supply Current vs. Capacitive Load.

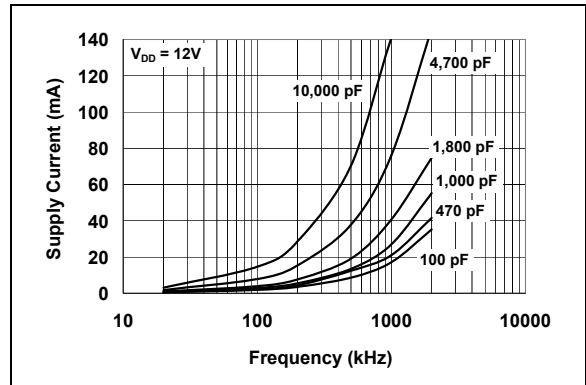


FIGURE 2-17: Supply Current vs. Frequency.

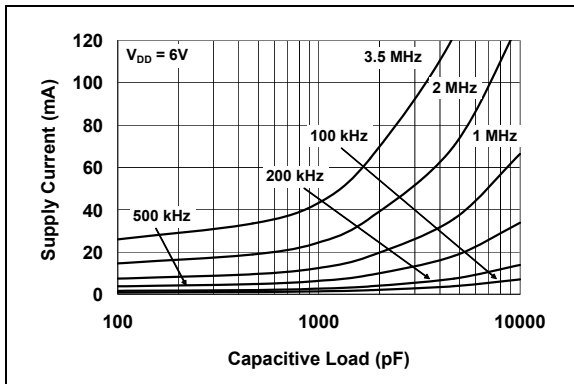


FIGURE 2-15: Supply Current vs. Capacitive Load.

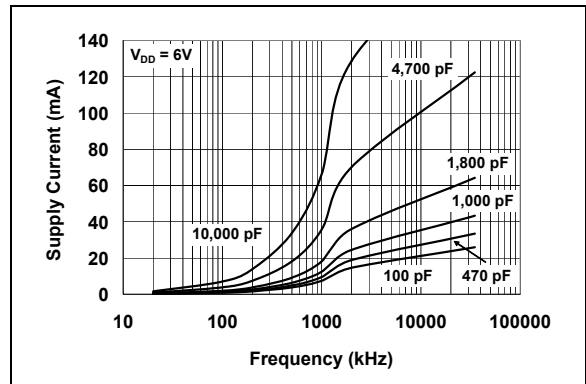


FIGURE 2-18: Supply Current vs. Frequency.

TC4423A/TC4424A/TC4425A

Typical Performance Curves (Continued)

Note: Unless otherwise indicated, $T_A = +25^\circ\text{C}$ with $4.5\text{V} \leq V_{DD} \leq 18\text{V}$.

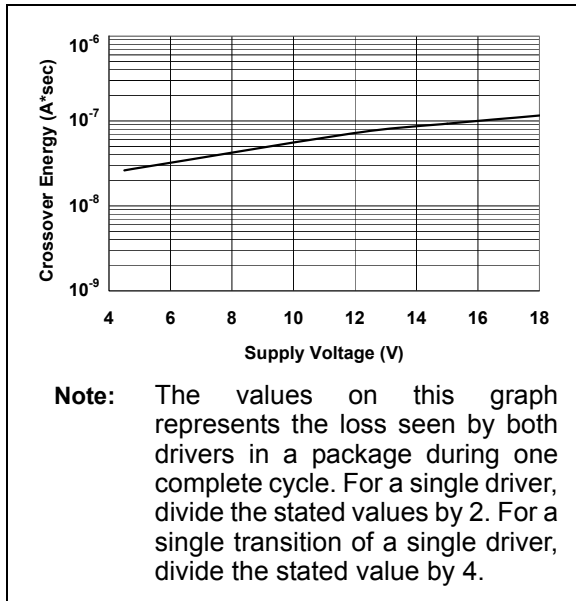


FIGURE 2-19: Crossover Energy vs. Supply Voltage.

3.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in Table 3-1.

TABLE 3-1: PIN FUNCTION TABLE ⁽¹⁾

| 8-Pin PDIP | 8-Pin DFN | 16-Pin SOIC (Wide) | Symbol | Description |
|------------|-----------|--------------------|-----------------|-------------------|
| 1 | 1 | 1 | NC | No connection |
| 2 | 2 | 2 | IN A | Input A |
| — | — | 3 | NC | No connection |
| 3 | 3 | 4 | GND | Ground |
| — | — | 5 | GND | Ground |
| — | — | 6 | NC | No connection |
| 4 | 4 | 7 | IN B | Input B |
| — | — | 8 | NC | No connection |
| — | — | 9 | NC | No connection |
| 5 | 5 | 10 | OUT B | Output B |
| — | — | 11 | OUT B | Output B |
| 6 | 6 | 12 | V _{DD} | Supply input |
| — | — | 13 | V _{DD} | Supply input |
| 7 | 7 | 14 | OUT A | Output A |
| — | — | 15 | OUT A | Output A |
| 8 | 8 | 16 | NC | No connection |
| — | PAD | — | NC | Exposed Metal Pad |

Note 1: Duplicate pins must be connected for proper operation.

3.1 Inputs A and B

Inputs A and B are TTL/CMOS compatible inputs that control outputs A and B, respectively. These inputs have 300 mV of hysteresis between the high and low input levels, allowing them to be driven from slow rising and falling signals, and to provide noise immunity.

3.2 Outputs A and B

Outputs A and B are CMOS push-pull outputs that are capable of sourcing and sinking 3A peaks of current (V_{DD} = 18V). The low output impedance ensures the gate of the external MOSFET will stay in the intended state even during large transients. These outputs also have a reverse current latch-up rating of 1.5A.

3.3 Supply Input (V_{DD})

V_{DD} is the bias supply input for the MOSFET driver and has a voltage range of 4.5V to 18V. This input must be decoupled to ground with a local ceramic capacitor. This bypass capacitor provides a localized low-impedance path for the peak currents that are to be provided to the load.

3.4 Ground (GND)

Ground is the device return pin. The ground pin should have a low-impedance connection to the bias supply source return. High peak currents will flow out the ground pin when the capacitive load is being discharged.

3.5 Exposed Metal Pad

The exposed metal pad of the DFN package is not internally connected to any potential. Therefore, this pad can be connected to a ground plane or other copper plane on a printed circuit board to aid in heat removal from the package.

TC4423A/TC4424A/TC4425A

4.0 APPLICATIONS INFORMATION

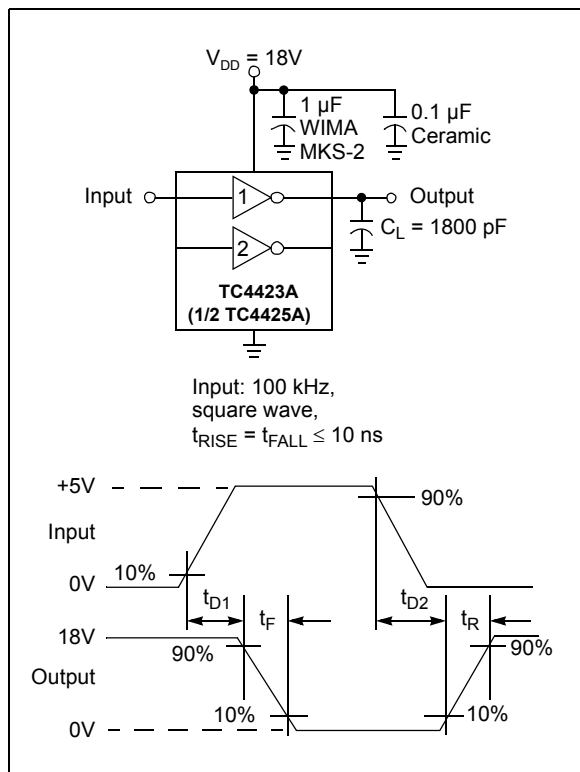


FIGURE 4-1: Inverting Driver Switching Time.

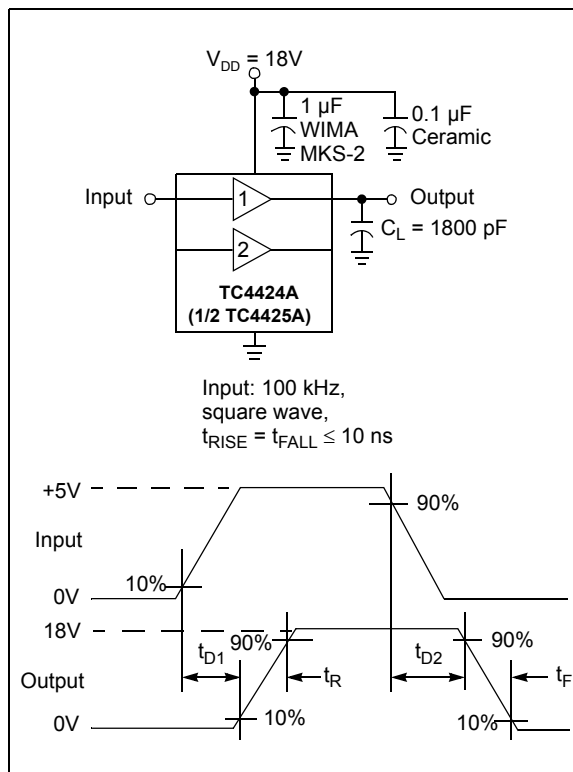


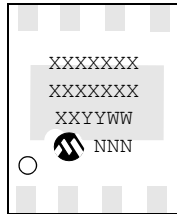
FIGURE 4-2: Non-inverting Driver Switching Time.

TC4423A/TC4424A/TC4425A

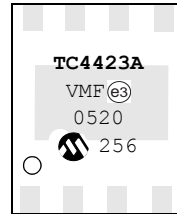
5.0 PACKAGING INFORMATION

5.1 Package Marking Information (Not to Scale)

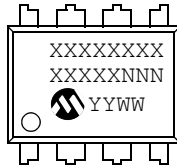
8-Lead DFN (6x5)



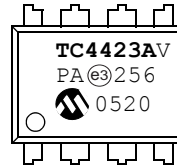
Example:



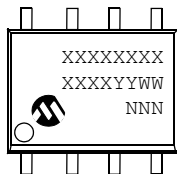
8-Lead PDIP (300 mil)



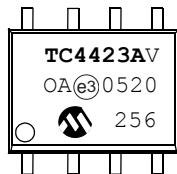
Example:



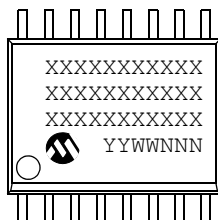
8-Lead SOIC (150 mil)



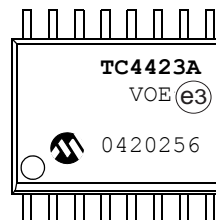
Example:



16-Lead SOIC (300 mil)



Example:



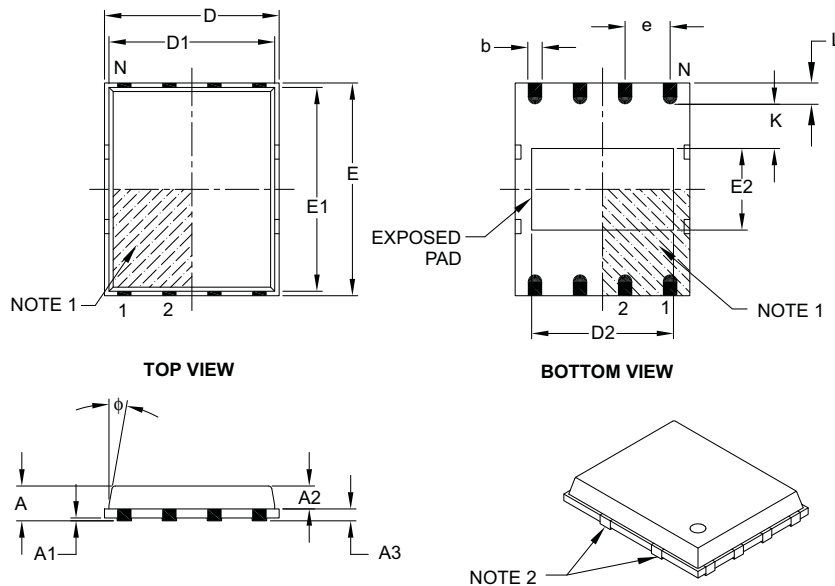
| | | |
|----------------|--------|--|
| Legend: | XX...X | Customer-specific information |
| | Y | Year code (last digit of calendar year) |
| | YY | Year code (last 2 digits of calendar year) |
| | WW | Week code (week of January 1 is week '01') |
| | NNN | Alphanumeric traceability code |
| | (e3) | Pb-free JEDEC designator for Matte Tin (Sn) |
| | * | This package is Pb-free. The Pb-free JEDEC designator (e3) can be found on the outer packaging for this package. |

Note: In the event the full Microchip part number cannot be marked on one line, it will be carried over to the next line, thus limiting the number of available characters for customer-specific information.

TC4423A/TC4424A/TC4425A

8-Lead Plastic Dual Flat, No Lead Package (MF) – 6x5 mm Body [DFN-S] PUNCH SINGULATED

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



| | | Units | MILLIMETERS | | |
|--------------------------|--------|------------------|-------------|------|-----|
| | | Dimension Limits | MIN | NOM | MAX |
| Number of Pins | N | 8 | | | |
| Pitch | e | 1.27 BSC | | | |
| Overall Height | A | – | 0.85 | 1.00 | |
| Molded Package Thickness | A2 | – | 0.65 | 0.80 | |
| Standoff | A1 | 0.00 | 0.01 | 0.05 | |
| Base Thickness | A3 | 0.20 REF | | | |
| Overall Length | D | 4.92 BSC | | | |
| Molded Package Length | D1 | 4.67 BSC | | | |
| Exposed Pad Length | D2 | 3.85 | 4.00 | 4.15 | |
| Overall Width | E | 5.99 BSC | | | |
| Molded Package Width | E1 | 5.74 BSC | | | |
| Exposed Pad Width | E2 | 2.16 | 2.31 | 2.46 | |
| Contact Width | b | 0.35 | 0.40 | 0.47 | |
| Contact Length | L | 0.50 | 0.60 | 0.75 | |
| Contact-to-Exposed Pad | K | 0.20 | – | – | |
| Model Draft Angle Top | ϕ | – | – | 12° | |

Notes:

- Pin 1 visual index feature may vary, but must be located within the hatched area.
- Package may have one or more exposed tie bars at ends.
- Dimensioning and tolerancing per ASME Y14.5M.

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

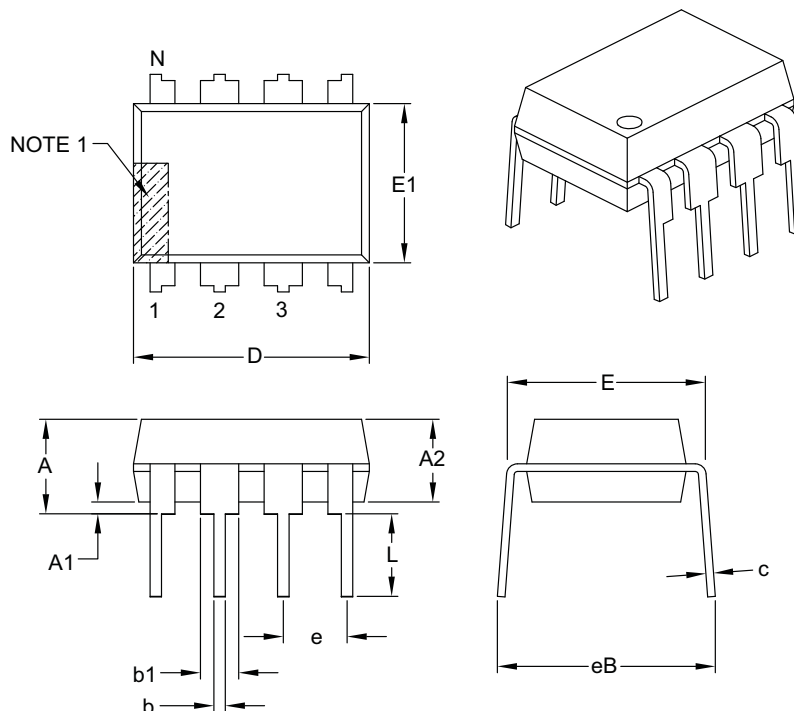
REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-113B

TC4423A/TC4424A/TC4425A

8-Lead Plastic Dual In-Line (PA) – 300 mil Body [PDIP]

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



| Dimension Limits | Units | INCHES | | |
|----------------------------|-------|----------|------|------|
| | | MIN | NOM | MAX |
| Number of Pins | N | 8 | | |
| Pitch | e | .100 BSC | | |
| Top to Seating Plane | A | – | – | .210 |
| Molded Package Thickness | A2 | .115 | .130 | .195 |
| Base to Seating Plane | A1 | .015 | – | – |
| Shoulder to Shoulder Width | E | .290 | .310 | .325 |
| Molded Package Width | E1 | .240 | .250 | .280 |
| Overall Length | D | .348 | .365 | .400 |
| Tip to Seating Plane | L | .115 | .130 | .150 |
| Lead Thickness | c | .008 | .010 | .015 |
| Upper Lead Width | b1 | .040 | .060 | .070 |
| Lower Lead Width | b | .014 | .018 | .022 |
| Overall Row Spacing § | eB | – | – | .430 |

Notes:

- Pin 1 visual index feature may vary, but must be located with the hatched area.
- § Significant Characteristic.
- Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed .010" per side.
- Dimensioning and tolerancing per ASME Y14.5M.

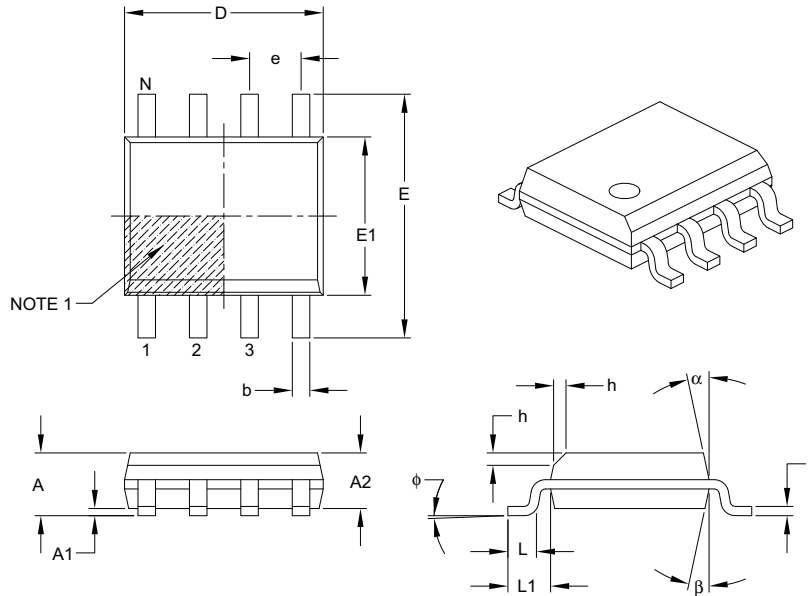
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing C04-018B

TC4423A/TC4424A/TC4425A

8-Lead Plastic Small Outline (OA) – Narrow, 3.90 mm Body [SOIC]

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



| | | Units | MILLIMETERS | | |
|--------------------------|----|-------|-------------|-----|------|
| Dimension Limits | | | MIN | NOM | MAX |
| Number of Pins | N | | 8 | | |
| Pitch | e | | 1.27 BSC | | |
| Overall Height | A | – | – | – | 1.75 |
| Molded Package Thickness | A2 | | 1.25 | – | – |
| Standoff § | A1 | | 0.10 | – | 0.25 |
| Overall Width | E | | 6.00 BSC | | |
| Molded Package Width | E1 | | 3.90 BSC | | |
| Overall Length | D | | 4.90 BSC | | |
| Chamfer (optional) | h | | 0.25 | – | 0.50 |
| Foot Length | L | | 0.40 | – | 1.27 |
| Footprint | L1 | | 1.04 REF | | |
| Foot Angle | φ | | 0° | – | 8° |
| Lead Thickness | c | | 0.17 | – | 0.25 |
| Lead Width | b | | 0.31 | – | 0.51 |
| Mold Draft Angle Top | α | | 5° | – | 15° |
| Mold Draft Angle Bottom | β | | 5° | – | 15° |

Notes:

- Pin 1 visual index feature may vary, but must be located within the hatched area.
- § Significant Characteristic.
- Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed 0.15 mm per side.
- Dimensioning and tolerancing per ASME Y14.5M.

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

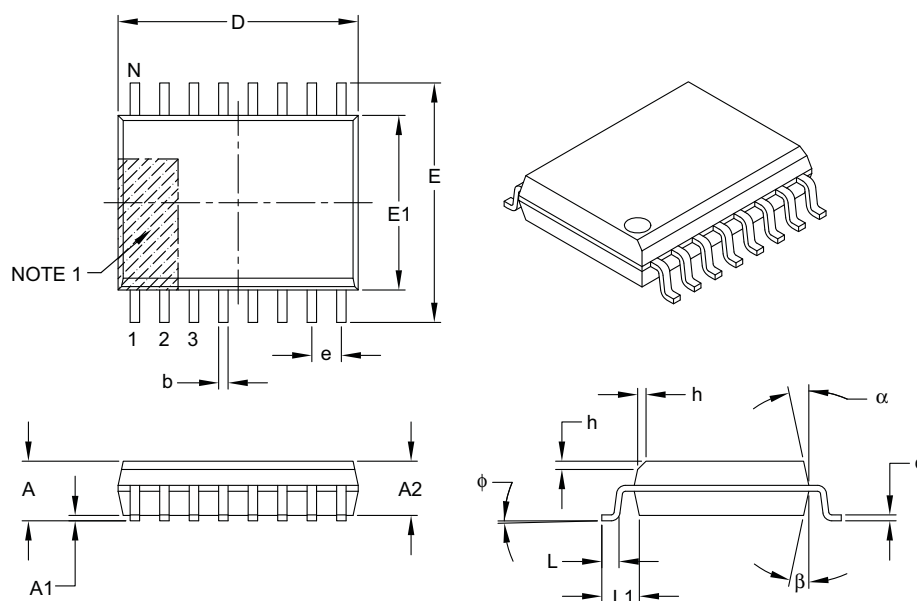
REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-057B

TC4423A/TC4424A/TC4425A

16-Lead Plastic Small Outline (OE) – Wide, 7.50 mm Body [SOIC]

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



| Dimension Limits | Units | MILLIMETERS | | |
|--------------------------|----------|-------------|-----|------|
| | | MIN | NOM | MAX |
| Number of Pins | N | 16 | | |
| Pitch | e | 1.27 BSC | | |
| Overall Height | A | – | – | 2.65 |
| Molded Package Thickness | A2 | 2.05 | – | – |
| Standoff § | A1 | 0.10 | – | 0.30 |
| Overall Width | E | 10.30 BSC | | |
| Molded Package Width | E1 | 7.50 BSC | | |
| Overall Length | D | 10.30 BSC | | |
| Chamfer (optional) | h | 0.25 | – | 0.75 |
| Foot Length | L | 0.40 | – | 1.27 |
| Footprint | L1 | 1.40 REF | | |
| Foot Angle | ϕ | 0° | – | 8° |
| Lead Thickness | c | 0.20 | – | 0.33 |
| Lead Width | b | 0.31 | – | 0.51 |
| Mold Draft Angle Top | α | 5° | – | 15° |
| Mold Draft Angle Bottom | β | 5° | – | 15° |

Notes:

- Pin 1 visual index feature may vary, but must be located within the hatched area.
- § Significant Characteristic.
- Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed 0.15 mm per side.
- Dimensioning and tolerancing per ASME Y14.5M.

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-102B

TC4423A/TC4424A/TC4425A

NOTES:

APPENDIX A: REVISION HISTORY

Revision B (April 2007)

- Correct numerous errors throughout document.
- Page 3: Added Package Power Dissipation information about DC Characteristic Table.
- Page 3: Added Note 3 to DC Characteristic Table.
- Page 4: Changed Thermal Resistance for 8L-PDIP device from 125 to 84.6.
Changed Thermal Resistance for 8L-SOIC from 155 to 163.
- Page 12: Updated Package Outline Drawing.
- Page 13: Updated Package Outline Drawing.
- Page 14: Updated Package Outline Drawing.
- Page 15: Added 16-Lead SOIC Package Outline Drawing
- Page 17: Updated Revision History.

Revision A (June 2006)

- Original Release of this Document.

TC4423A/TC4424A/TC4425A

NOTES:

TC4423A/TC4424A/TC4425A

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, refer to the factory or the listed sales office.

| <u>PART NO.</u> | <u>X</u> | <u>XX</u> | <u>XXX</u> | Examples: |
|--------------------|-------------------|--|-------------|--|
| Device | Temperature Range | Package | Tape & Reel | |
| Device: | | TC4423A: 3A Dual MOSFET Driver, Inverting TC4424A: 3A Dual MOSFET Driver, Non-Inverting TC4425A: 3A Dual MOSFET Driver, Complementary | | a) TC4423AVOA: 3A Dual Inverting MOSFET Driver, 8LD SOIC package. b) TC4423AVPA: 3A Dual Inverting MOSFET Driver, 8LD PDIP package. c) TC4423AVMF: 3A Dual Inverting MOSFET Driver, 8LD DFN package. d) TC4423AVOE: 3A Dual Inverting MOSFET Driver, 16LD SOIC package. |
| Temperature Range: | V = | -40°C to +125°C | | a) TC4424AVOA713: 3A Dual Non-Inverting, MOSFET Driver, 8LD SOIC package, Tape and Reel. b) TC4424AVPA: 3A Dual Non-Inverting, MOSFET Driver, 8LD PDIP package. |
| Package: * | | MF = Dual, Flat, No-Lead (6x5 mm Body), 8-lead MF713 = Dual, Flat, No-Lead (6x5 mm Body), 8-lead (Tape and Reel) OA = Plastic SOIC (150 mil Body), 8-Lead OA713 = Plastic SOIC (150 mil Body), 8-Lead (Tape and Reel) OE = Plastic SOIC (Wide Body), 16-lead OE713 = Plastic SOIC (Wide Body), 16-lead (Tape and Reel) PA = Plastic DIP, (300 mil body), 8-lead * All package offerings are Pb Free (Lead Free) | | a) TC4425AVOA: 3A Dual Complementary, MOSFET Driver, 8LD SOIC package. b) TC4425AVPA: 3A Dual Complementary, MOSFET Driver, 8LD PDIP package. c) TC4425AVOE713: 3A Dual Complementary, MOSFET Driver, 16LD SOIC package, Tape and Reel. |

TC4423A/TC4424A/TC4425A

NOTES:

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