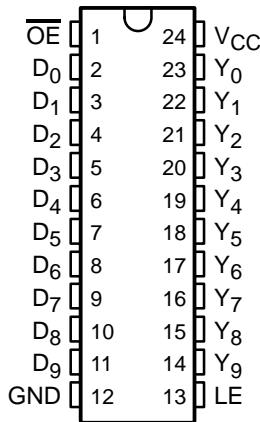


- Function, Pinout, and Drive Compatible With FCT, F, and AM29841 Logic
- Reduced V_{OH} (Typically = 3.3 V) Versions of Equivalent FCT Functions
- Edge-Rate Control Circuitry for Significantly Improved Noise Characteristics
- I_{off} Supports Partial-Power-Down Mode Operation
- Matched Rise and Fall Times
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)
- Fully Compatible With TTL Input and Output Logic Levels
- High-Speed Parallel Latches
- Buffered Common Latch-Enable Input
- 3-State Outputs
- CY54FCT841T
 - 32-mA Output Sink Current
 - 12-mA Output Source Current
- CY74FCT841T
 - 64-mA Output Sink Current
 - 32-mA Output Source Current

CY54FCT841T . . . D PACKAGE
CY74FCT841T . . . P, Q, OR SO PACKAGE
(TOP VIEW)



description

The 'FCT841T bus-interface latches are designed to eliminate additional packages required to buffer existing latches and provide additional data width for wider address/data paths or buses carrying parity. The 'FCT841T devices are buffered 10-bit-wide versions of the FCT373 function.

The 'FCT841T devices' high-performance interface is designed for high-capacitance-load drive capability, while providing low-capacitance bus loading at both inputs and outputs. Outputs are designed for low-capacitance bus loading in the high-impedance state.

These devices are fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

PIN DESCRIPTION

| NAME | I/O | DESCRIPTION |
|-----------------|-----|---|
| D | I | Latch data inputs |
| LE | I | Latch-enable input. The latches are transparent when LE is high. Input data is latched on the high-to-low transition. |
| Y | O | 3-state latch outputs |
| \overline{OE} | I | Output-enable control. When \overline{OE} is low, the outputs are enabled. When \overline{OE} is high, the outputs are in the high-impedance (off) state. |



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

CY54FCT841T, CY74FCT841T

10-BIT LATCHES

WITH 3-STATE OUTPUTS

SCCS035A – SEPTEMBER 1994 – REVISED OCTOBER 2001

ORDERING INFORMATION

| TA | PACKAGE [†] | | SPEED (ns) | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|----------------------|---------------|------------|-----------------------|------------------|
| -40°C to 85°C | QSOP – Q | Tape and reel | 5.5 | CY74FCT841CTQCT | FCT841C |
| | SOIC – SO | Tube | 5.5 | CY74FCT841CTSOC | FCT841C |
| | | Tape and reel | 5.5 | CY74FCT841CTSOCT | |
| | DIP – P | Tube | 6.5 | CY74FCT841BTPC | CY74FCT841BTPC |
| | SOIC – SO | Tube | 9 | CY74FCT841ATSOC | FCT841A |
| | | Tape and reel | 9 | CY74FCT841ATSOCT | |
| -55°C to 125°C | CDIP – D | Tube | 10 | CY54FCT841ATDMB | |

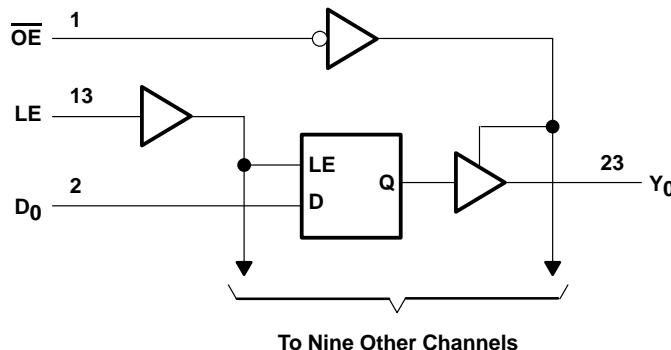
[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE

| INPUTS | | | INTERNAL OUTPUTS | | FUNCTION |
|-----------------|----|---|------------------|----|-------------|
| \overline{OE} | LE | D | O | Y | |
| H | X | X | X | Z | Z |
| H | H | L | L | Z | |
| H | H | H | H | Z | |
| H | L | X | NC | Z | Latched (Z) |
| L | H | L | L | L | Transparent |
| L | H | H | H | H | |
| L | L | X | NC | NC | Latched |

H = High logic level, L = Low logic level, X = Don't care,
NC = No change, Z = High-impedance state

logic diagram (positive logic)



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

† Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The package thermal impedance is calculated in accordance with JESD 51-3.
2. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions (see Note 3)

| | | CY54FCT841T | | | CY74FCT841T | | | UNIT |
|-----------------|--------------------------------|-------------|-----|-----|-------------|-----|------|------|
| | | MIN | NOM | MAX | MIN | NOM | MAX | |
| V _{CC} | Supply voltage | 4.5 | 5 | 5.5 | 4.75 | 5 | 5.25 | V |
| V _{IH} | High-level input voltage | | 2 | | | 2 | | V |
| V _{IL} | Low-level input voltage | | | 0.8 | | | 0.8 | V |
| I _{OH} | High-level output current | | | -12 | | | -32 | mA |
| I _{OL} | Low-level output current | | | 32 | | | 64 | mA |
| T _A | Operating free-air temperature | -55 | | 125 | -40 | | 85 | °C |

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation.

CY54FCT841T, CY74FCT841T

10-BIT LATCHES

WITH 3-STATE OUTPUTS

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electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

| PARAMETER | TEST CONDITIONS | CY54FCT841T | | | CY74FCT841T | | | UNIT |
|--------------------|--|--------------------------|------|------|-------------|------|------|---------|
| | | MIN | TYP† | MAX | MIN | TYP† | MAX | |
| V _{IK} | V _{CC} = 4.5 V, I _{IN} = -18 mA | | -0.7 | -1.2 | | | | V |
| | V _{CC} = 4.75 V, I _{IN} = -18 mA | | | | | -0.7 | -1.2 | |
| V _{OH} | V _{CC} = 4.5 V, I _{OH} = -12 mA | 2.4 | 3.3 | | | | | V |
| | V _{CC} = 4.75 V | I _{OH} = -32 mA | | | 2 | | | |
| | | I _{OH} = -15 mA | | | 2.4 | 3.3 | | |
| V _{OL} | V _{CC} = 4.5 V, I _{OL} = 32 mA | 0.3 | 0.55 | | | | | V |
| | V _{CC} = 4.75 V, I _{OL} = 64 mA | | | | 0.3 | 0.55 | | |
| V _{hys} | All inputs | 0.2 | | | 0.2 | | | V |
| I _I | V _{CC} = 5.5 V, V _{IN} = V _{CC} | | 5 | | | | | μA |
| | V _{CC} = 5.25 V, V _{IN} = V _{CC} | | | | | 5 | | |
| I _{IH} | V _{CC} = 5.5 V, V _{IN} = 2.7 V | | ±1 | | | | | μA |
| | V _{CC} = 5.25 V, V _{IN} = 2.7 V | | | | | ±1 | | |
| I _{IL} | V _{CC} = 5.5 V, V _{IN} = 0.5 V | | ±1 | | | | | μA |
| | V _{CC} = 5.25 V, V _{IN} = 0.5 V | | | | | ±1 | | |
| I _{OZH} | V _{CC} = 5.5 V, V _{OUT} = 2.7 V | | 10 | | | | | μA |
| | V _{CC} = 5.25 V, V _{OUT} = 2.7 V | | | | | 10 | | |
| I _{OZL} | V _{CC} = 5.5 V, V _{OUT} = 0.5 V | | -10 | | | | | μA |
| | V _{CC} = 5.25 V, V _{OUT} = 0.5 V | | | | | -10 | | |
| I _{OS} ‡ | V _{CC} = 5.5 V, V _{OUT} = 0 V | -60 | -120 | -225 | | | | mA |
| | V _{CC} = 5.25 V, V _{OUT} = 0 V | | | | -60 | -120 | -225 | |
| I _{off} | V _{CC} = 0 V, V _{OUT} = 4.5 V | | ±1 | | | ±1 | | μA |
| I _{CC} | V _{CC} = 5.5 V, V _{IN} ≤ 0.2 V, V _{IN} ≥ V _{CC} - 0.2 V | 0.1 | 0.2 | | | | | mA |
| | V _{CC} = 5.25 V, V _{IN} ≤ 0.2 V, V _{IN} ≥ V _{CC} - 0.2 V | | | | 0.1 | 0.2 | | |
| ΔI _{CC} | V _{CC} = 5.5 V, V _{IN} = 3.4 V§, f ₁ = 0, Outputs open | 0.5 | 2 | | | | | mA |
| | V _{CC} = 5.25 V, V _{IN} = 3.4 V§, f ₁ = 0, Outputs open | | | | 0.5 | 2 | | |
| I _{CCD} ¶ | V _{CC} = 5.5 V, One input switching at 50% duty cycle, Outputs open, OE = GND, LE = V _{CC} , V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} - 0.2 V | 0.06 | 0.12 | | | | | mA/ MHz |
| | V _{CC} = 5.25 V, One input switching at 50% duty cycle, Outputs open, OE = GND, LE = V _{CC} , V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} - 0.2 V | | | | 0.06 | 0.12 | | |

† Typical values are at V_{CC} = 5 V, T_A = 25°C.

‡ Not more than one output should be shorted at a time. Duration of short should not exceed one second. The use of high-speed test apparatus and/or sample-and-hold techniques are preferable to minimize internal chip heating and more accurately reflect operational values. Otherwise, prolonged shorting of a high output can raise the chip temperature well above normal and cause invalid readings in other parametric tests. In any sequence of parameter tests, I_{OS} tests should be performed last.

§ Per TTL-driven input (V_{IN} = 3.4 V); all other inputs at V_{CC} or GND

¶ This parameter is derived for use in total power-supply calculations.



electrical characteristics over recommended operating free-air temperature range (unless otherwise noted) (continued)

| PARAMETER | TEST CONDITIONS | | | CY54FCT841T | | | CY74FCT841T | | | UNIT |
|------------|--|---|--|-------------|--------------------|-----|--------------------|------------------|-----|------|
| | | | | MIN | TYP [†] | MAX | MIN | TYP [†] | MAX | |
| $I_C^{\#}$ | $V_{CC} = 5.5\text{ V}$, Outputs open, $OE = GND$, $LE = V_{CC}$ | One bit switching at $f_1 = 10\text{ MHz}$ at 50% duty cycle | $V_{IN} \leq 0.2\text{ V}$ or $V_{IN} \geq V_{CC} - 0.2\text{ V}$ | 0.7 | 1.4 | | | | | mA |
| | | | $V_{IN} = 3.4\text{ V}$ or GND | 1 | 2.4 | | | | | |
| | | 10 bits switching at $f_1 = 2.5\text{ MHz}$ at 50% duty cycle | $V_{IN} \leq 0.2\text{ V}$ or $V_{IN} \geq V_{CC} - 0.2\text{ V}$ | 1 | 3.2 | | | | | |
| | | | $V_{IN} = 3.4\text{ V}$ or GND | 4.1 | 13.2 | | | | | |
| | $V_{CC} = 5.25\text{ V}$, Outputs open, $OE = GND$, $LE = V_{CC}$ | One bit switching at $f_1 = 10\text{ MHz}$ at 50% duty cycle | $V_{IN} \leq 0.2\text{ V}$ or $V_{IN} \geq V_{CC} - 0.2\text{ V}$ | | | 0.7 | 1.4 | | | |
| | | | $V_{IN} = 3.4\text{ V}$ or GND | | | 1 | 2.4 | | | |
| | | 10 bits switching at $f_1 = 2.5\text{ MHz}$ at 50% duty cycle | $V_{IN} \leq 0.2\text{ V}$ or $V_{IN} \geq V_{CC} - 0.2\text{ V}$ | | | 1 | 3.2 | | | |
| | | | $V_{IN} = 3.4\text{ V}$ or GND | | | 4.1 | 13.2 | | | |
| C_i | | | | 5 | 10 | | 5 | 10 | | pF |
| C_o | | | | 9 | 12 | | 9 | 12 | | pF |

[†] Typical values are at $V_{CC} = 5\text{ V}$, $T_A = 25^{\circ}\text{C}$.# $I_C^{\#} = I_{CC} + \Delta I_{CC} \times D_H \times N_T + I_{CCD} (f_0/2 + f_1 \times N_1)$

Where:

 I_C = Total supply current I_{CC} = Power-supply current with CMOS input levels ΔI_{CC} = Power-supply current for a TTL high input ($V_{IN} = 3.4\text{ V}$) D_H = Duty cycle for TTL inputs high N_T = Number of TTL inputs at D_H I_{CCD} = Dynamic current caused by an input transition pair (HLH or LHL) f_0 = Clock frequency for registered devices, otherwise zero f_1 = Input signal frequency N_1 = Number of inputs changing at f_1

All currents are in milliamperes and all frequencies are in megahertz.

^{||} Values for these conditions are examples of the I_{CC} formula.

timing requirements over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

| | | CY54FCT841AT | | CY74FCT841AT | | CY74FCT841BT | | CY74FCT841CT | | UNIT |
|----------|---------------------------------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | |
| t_w | Pulse duration, LE high | 5 | | 4 | | 4 | | 4 | | ns |
| t_{su} | Setup time, data before LE \uparrow | 2.5 | | 2.5 | | 2.5 | | 2.5 | | ns |
| t_h | Hold time, data after LE \uparrow | 3 | | 2.5 | | 2.5 | | 2.5 | | ns |

CY54FCT841T, CY74FCT841T**10-BIT LATCHES****WITH 3-STATE OUTPUTS**

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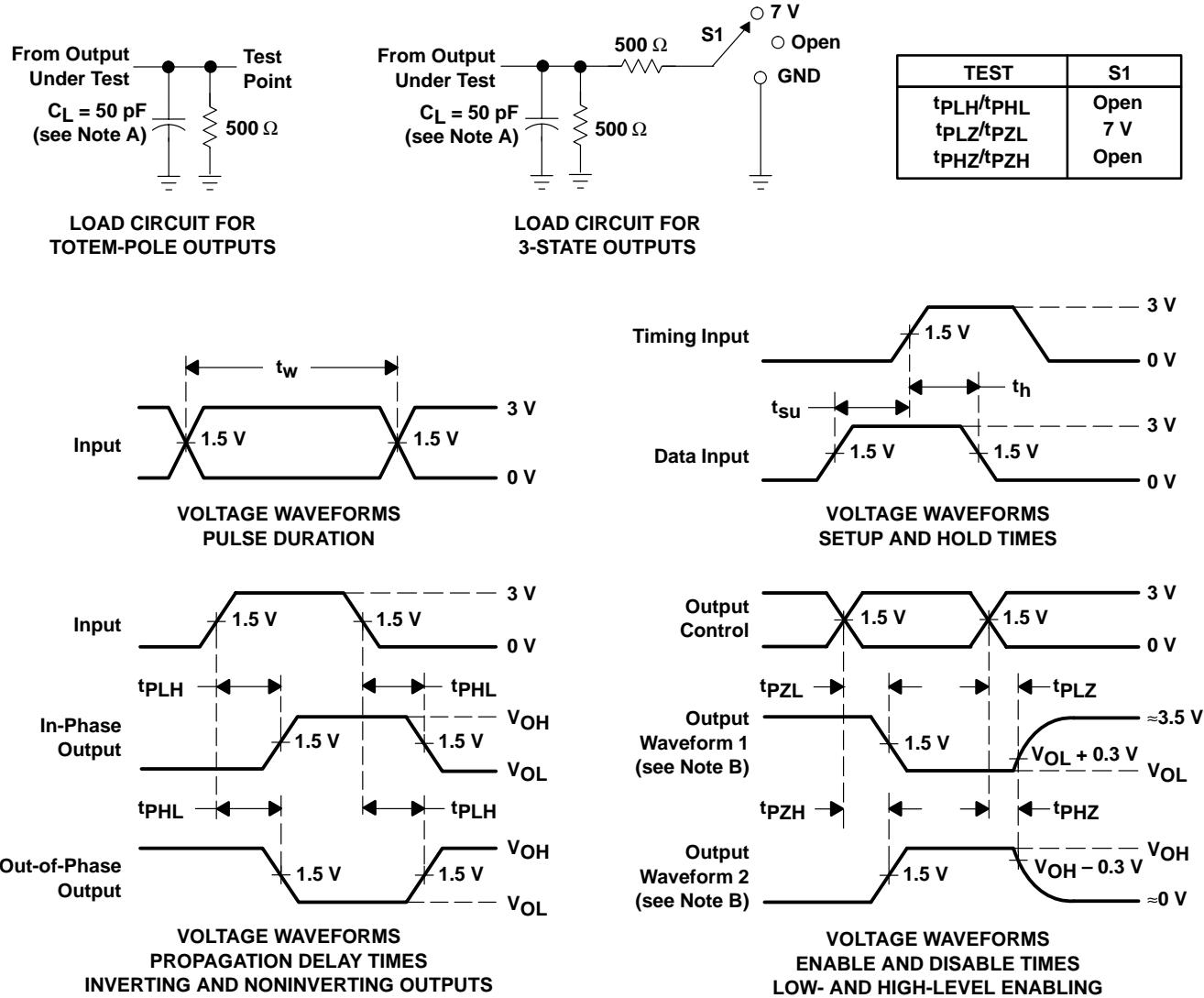
switching characteristics over operating free-air temperature range (see Figure 1)

| PARAMETER | FROM (INPUT) | TO (OUTPUT) | TEST LOAD | CY54FCT841AT | | CY74FCT841AT | | UNIT |
|------------------|-----------------|----------------|--|--------------|-----|--------------|------|------|
| | | | | MIN | MAX | MIN | MAX | |
| t _{PLH} | D | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 10 | 1.5 | 9 | ns |
| t _{PHL} | | | | 1.5 | 10 | 1.5 | 9 | |
| t _{PLH} | D | Y | C _L = 300 pF, R _L = 500 Ω | 1.5 | 15 | 1.5 | 13 | ns |
| t _{PHL} | | | | 1.5 | 15 | 1.5 | 13 | |
| t _{PLH} | LE | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 13 | 1.5 | 12 | ns |
| t _{PHL} | | | | 1.5 | 13 | 1.5 | 12 | |
| t _{PLH} | LE | Y | C _L = 300 pF, R _L = 500 Ω | 1.5 | 20 | 1.5 | 16 | ns |
| t _{PHL} | | | | 1.5 | 20 | 1.5 | 16 | |
| t _{PZH} | OE | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 13 | 1.5 | 11.5 | ns |
| t _{PZL} | | | | 1.5 | 13 | 1.5 | 11.5 | |
| t _{PZH} | OE | Y | C _L = 300 pF, R _L = 500 Ω | 1.5 | 25 | 1.5 | 23 | ns |
| t _{PZL} | | | | 1.5 | 25 | 1.5 | 23 | |
| t _{PHZ} | OE | Y | C _L = 5 pF, R _L = 500 Ω | 1.5 | 9 | 1.5 | 7 | ns |
| t _{PLZ} | | | | 1.5 | 9 | 1.5 | 7 | |
| t _{PHZ} | OE | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 10 | 1.5 | 8 | ns |
| t _{PLZ} | | | | 1.5 | 10 | 1.5 | 8 | |

switching characteristics over operating free-air temperature range (see Figure 1)

| PARAMETER | FROM (INPUT) | TO (OUTPUT) | TEST LOAD | CY74FCT841BT | | CY74FCT841CT | | UNIT |
|------------------|-----------------|----------------|--|--------------|------|--------------|-----|------|
| | | | | MIN | MAX | MIN | MAX | |
| t _{PLH} | D | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 6.5 | 1.5 | 5.5 | ns |
| t _{PHL} | | | | 1.5 | 6.5 | 1.5 | 5.5 | |
| t _{PLH} | D | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 13 | 1.5 | 13 | ns |
| t _{PHL} | | | | 1.5 | 13 | 1.5 | 13 | |
| t _{PLH} | LE | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 8 | 1.5 | 6.4 | ns |
| t _{PHL} | | | | 1.5 | 8 | 1.5 | 6.4 | |
| t _{PLH} | LE | Y | C _L = 300 pF, R _L = 500 Ω | 1.5 | 15.5 | 1.5 | 15 | ns |
| t _{PHL} | | | | 1.5 | 15.5 | 1.5 | 15 | |
| t _{PZH} | OE | Y | C _L = 50 pF, R _L = 500 Ω | 1.5 | 8 | 1.5 | 6.5 | ns |
| t _{PZL} | | | | 1.5 | 8 | 1.5 | 6.5 | |
| t _{PZH} | OE | Y | C _L = 300 pF, R _L = 500 Ω | 1.5 | 14 | 1.5 | 12 | ns |
| t _{PZL} | | | | 1.5 | 14 | 1.5 | 12 | |
| t _{PHZ} | OE | Y | C _L = 5 pF, R _L = 500 Ω | 1.5 | 6 | 1.5 | 5.7 | ns |
| t _{PLZ} | | | | 1.5 | 6 | 1.5 | 5.7 | |
| t _{PHZ} | OE | Y | C _L = 50 pF R _L = 500 Ω, | 1.5 | 7 | 1.5 | 6 | ns |
| t _{PLZ} | | | | 1.5 | 7 | 1.5 | 6 | |

PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.
 B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control.
 Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
 C. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms

PACKAGING INFORMATION

| Orderable Device | Status (1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan (2) | Lead finish/ Ball material (6) | MSL Peak Temp (3) | Op Temp (°C) | Device Marking (4/5) | Samples |
|------------------|---------------|--------------|-----------------|------|-------------|------------------|--------------------------------------|----------------------|--------------|-------------------------|---|
| CY54FCT841ATDMB | ACTIVE | CDIP | JT | 24 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | CY54FCT841ATDMB | Samples |
| CY74FCT841ATSOC | ACTIVE | SOIC | DW | 24 | 25 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | FCT841A | Samples |
| CY74FCT841ATSOCT | ACTIVE | SOIC | DW | 24 | 2000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | FCT841A | Samples |
| CY74FCT841CTQCT | ACTIVE | SSOP | DBQ | 24 | 2500 | RoHS & Green | NIPDAU | Level-2-260C-1 YEAR | -40 to 85 | FCT841C | Samples |
| CY74FCT841CTSOC | ACTIVE | SOIC | DW | 24 | 25 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | FCT841C | Samples |
| CY74FCT841CTSOCT | ACTIVE | SOIC | DW | 24 | 2000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | FCT841C | Samples |

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

(6) Lead finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.



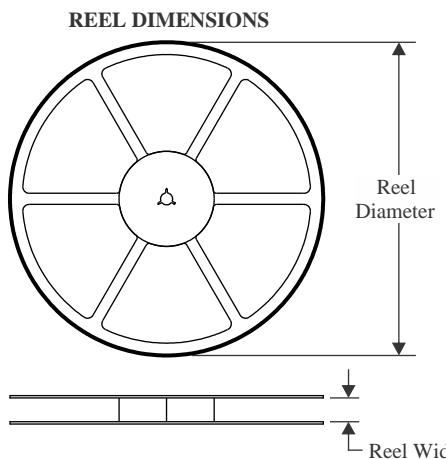
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PACKAGE OPTION ADDENDUM

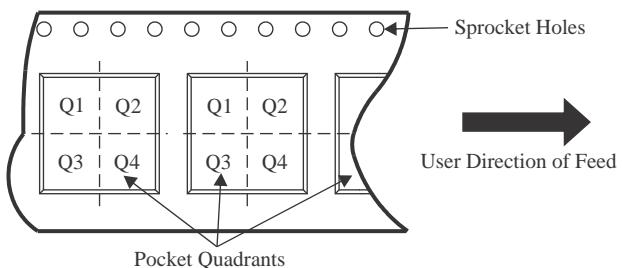
4-Feb-2021

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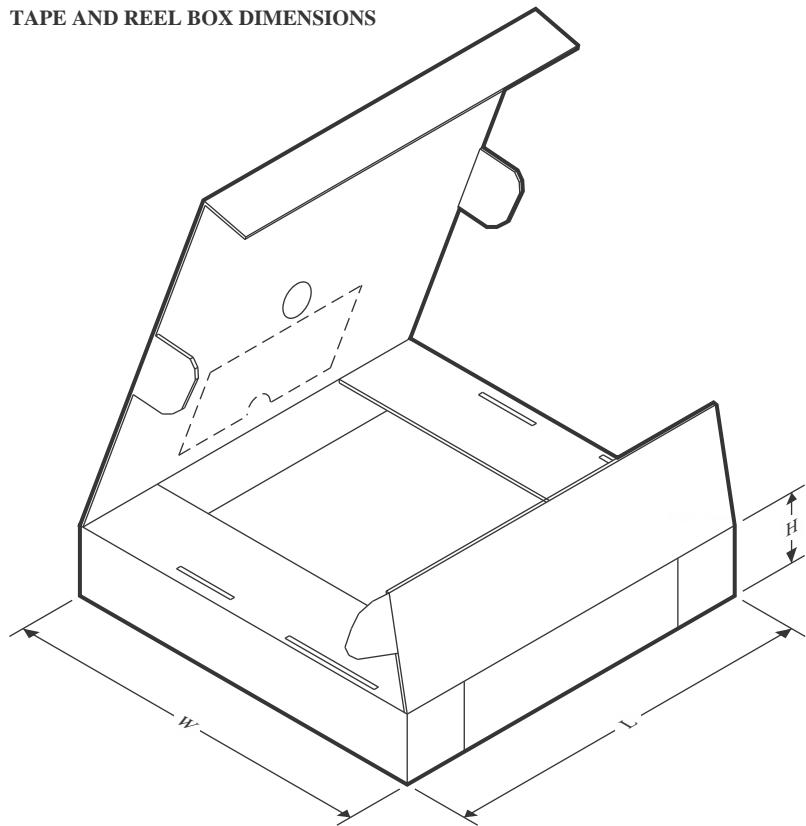
TAPE AND REEL INFORMATION


| | |
|----|---|
| A0 | Dimension designed to accommodate the component width |
| B0 | Dimension designed to accommodate the component length |
| K0 | Dimension designed to accommodate the component thickness |
| W | Overall width of the carrier tape |
| P1 | Pitch between successive cavity centers |

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE


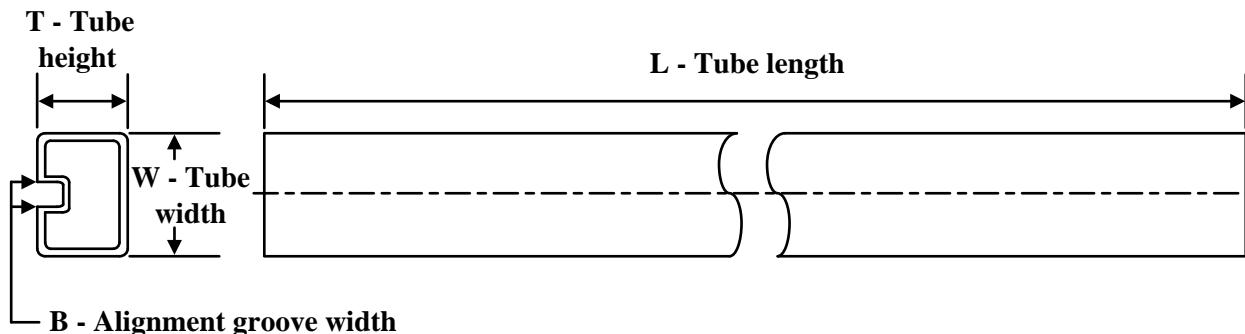
*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|------------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| CY74FCT841ATSOCT | SOIC | DW | 24 | 2000 | 330.0 | 24.4 | 10.75 | 15.7 | 2.7 | 12.0 | 24.0 | Q1 |
| CY74FCT841CTQCT | SSOP | DBQ | 24 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| CY74FCT841CTSOCT | SOIC | DW | 24 | 2000 | 330.0 | 24.4 | 10.75 | 15.7 | 2.7 | 12.0 | 24.0 | Q1 |

TAPE AND REEL BOX DIMENSIONS


*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| CY74FCT841ATSOCT | SOIC | DW | 24 | 2000 | 350.0 | 350.0 | 43.0 |
| CY74FCT841CTQCT | SSOP | DBQ | 24 | 2500 | 356.0 | 356.0 | 35.0 |
| CY74FCT841CTSOCT | SOIC | DW | 24 | 2000 | 350.0 | 350.0 | 43.0 |

TUBE


*All dimensions are nominal

| Device | Package Name | Package Type | Pins | SPQ | L (mm) | W (mm) | T (μ m) | B (mm) |
|-----------------|--------------|--------------|------|-----|--------|--------|--------------|--------|
| CY74FCT841ATSOC | DW | SOIC | 24 | 25 | 506.98 | 12.7 | 4826 | 6.6 |
| CY74FCT841CTSOC | DW | SOIC | 24 | 25 | 506.98 | 12.7 | 4826 | 6.6 |

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