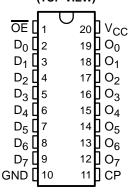
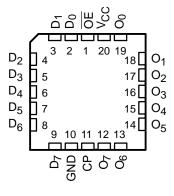
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- Function, Pinout, and Drive Compatible With FCT and F Logic
- Reduced V<sub>OH</sub> (Typically = 3.3 V) Versions of Equivalent FCT Functions
- Edge-Rate Control Circuitry for Significantly Improved Noise Characteristics
- I<sub>off</sub> Supports Partial-Power-Down Mode Operation
- Matched Rise and Fall Times
- Fully Compatible With TTL Input and Output Logic Levels
- ESD Protection Exceeds JESD 22
  - 2000-V Human-Body Model (A114-A)
  - 200-V Machine Model (A115-A)
  - 1000-V Charged-Device Model (C101)
- Edge-Triggered D-Type Inputs
- 250-MHz Typical Switching Rate
- CY54FCT574T
  - 32-mA Output Sink Current
  - 12-mA Output Source Current
- CY74FCT574T
  - 64-mA Output Sink Current
  - 32-mA Output Source Current
- 3-State Outputs

#### CY54FCT574T . . . D PACKAGE CY74FCT574T . . . Q OR SO PACKAGE (TOP VIEW)



### CY54FCT574T . . . L PACKAGE (TOP VIEW)



#### description

The 'FCT574T devices are high-speed, low-power, octal D-type flip-flops, featuring separate D-type inputs for each flip-flop. These devices have 3-state outputs for bus-oriented applications. A buffered clock (CP) and output-enable ( $\overline{OE}$ ) inputs are common to all flip-flops. The 'FCT574T are identical to 'FCT374T, except for a flow-through pinout to simplify board design. The eight flip-flops in the 'FCT574T store the state of their individual D inputs that meet the setup-time and hold-time requirements on the low-to-high CP transition. When  $\overline{OE}$  is low, the contents of the eight flip-flops are available at the outputs. When  $\overline{OE}$  is high, the outputs are in the high-impedance state. The state of  $\overline{OE}$  does not affect the state of the flip-flops.

These devices are fully specified for partial-power-down applications using I<sub>off</sub>. The I<sub>off</sub> circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.



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.



### **ORDERING INFORMATION**

TA	PACI	KAGEŤ	SPEED (ns)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	QSOP – Q	Tape and reel	5.2	CY74FCT574CTQCT	FCT574C
	SOIC - SO	Tube	5.2	CY74FCT574CTSOC	FCT574C
	3010 - 30	Tape and reel	5.2	CY74FCT574CTSOCT	FC1574C
	QSOP – Q	Tape and reel	6.5	CY74FCT574ATQCT	FCT574A
–40°C to 85°C	SOIC - SO	Tube	6.5	CY74FCT574ATSOC	FCT574A
	3010 - 30	Tape and reel	6.5	CY74FCT574ATSOCT	FC1574A
	QSOP – Q	Tape and reel	10	CY74FCT574TQCT	FCT574
	SOIC - SO	Tube	10	CY74FCT574TSOC	FCT574
	3010 = 30	Tape and reel	10	CY74FCT574TSOCT	101374
	CDIP – D	Tube	6.2	CY54FCT574CTDMB	
–55°C to 125°C	–55°C to 125°C CDIP – D		7.2	CY54FCT574ATDMB	
	LCC – L	Tube	7.2	CY54FCT574ATLMB	

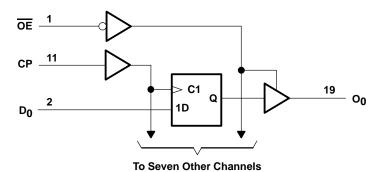
<sup>†</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

### **FUNCTION TABLE**

	INPUTS	OUTPUT	
D	СР	OE	0
Н	1	L	Н
L	$\uparrow$	L	L
Х	X	Н	Z

H = High logic level, L = Low logic level, X = Don't care, Z = High-impedance state,

### logic diagram (positive logic)



<sup>↑ =</sup> Low-to-high clock transition

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

Supply voltage range to ground potential	0.5 V to 7 V
DC input voltage range	0.5 V to 7 V
DC output voltage range	0.5 V to 7 V
DC output current (maximum sink current/pin)	120 mA
Package thermal impedance, θ <sub>JA</sub> (see Note 1): Q package	68°C/W
SO package	58°C/W
Ambient temperature range with power applied, T <sub>A</sub>	–65°C to 135°C
Storage temperature range, T <sub>stq</sub>	–65°C to 150°C

<sup>†</sup> 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.

### recommended operating conditions (see Note 2)

		CY54FCT574T			CY	4T	UNIT	
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	V
VIH	High-level input voltage	2			2			V
VIL	Low-level input voltage			0.8			0.8	V
ІОН	High-level output current			-12			-32	mA
loL	Low-level output current			32			64	mA
T <sub>A</sub>	Operating free-air temperature	-55		125	-40		85	°C

NOTE 2: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation.



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

### CY54FCT574T, CY74FCT574T 8-BIT REGISTERS WITH 3-STATE OUTPUTS

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

DADAMETED	TEST CONDITIONS			CY	54FCT57	4T	CY	74FCT57	'4T	UNIT
PARAMETER		TEST CONDITIO	JN5	MIN	TYP <sup>†</sup>	MAX	MIN	TYP <sup>†</sup>	MAX	UNII
Vara	V <sub>CC</sub> = 4.5 V,	I <sub>IN</sub> = -18 mA			-0.7	-1.2				V
VIK	$V_{CC} = 4.75 \text{ V},$	I <sub>IN</sub> = -18 mA						-0.7	-1.2	V
	$V_{CC} = 4.5 \text{ V},$	$I_{OH} = -12 \text{ mA}$		2.4	3.3					
Vон	V <sub>CC</sub> = 4.75 V	$I_{OH} = -32 \text{ mA}$					2			V
	VCC = 4.75 V	$I_{OH} = -15 \text{ mA}$					2.4	3.3		
Voi	$V_{CC} = 4.5 \text{ V},$	$I_{OL} = 32 \text{ mA}$			0.3	0.55				V
VOL	$V_{CC} = 4.75 \text{ V},$	$I_{OL} = 64 \text{ mA}$						0.3	0.55	V
$V_{hys}$	All inputs				0.2			0.2		V
1.	$V_{CC} = 5.5 \text{ V},$	VIN = VCC				5				μΑ
IJ	$V_{CC} = 5.25 \text{ V},$	VIN = VCC							5	μΑ
lu i	$V_{CC} = 5.5 \text{ V},$	$V_{1N} = 2.7 V$				±1				μΑ
IIH	$V_{CC} = 5.25 \text{ V},$	$V_{1N} = 2.7 V$							±1	μΛ
In	$V_{CC} = 5.5 \text{ V},$	$V_{IN} = 0.5 V$				±1				μΑ
IIL	$V_{CC} = 5.25 \text{ V},$	$V_{IN} = 0.5 V$							±1	μΛ
l <sub>off</sub>	$V_{CC} = 0 V$ ,	V <sub>OUT</sub> = 4.5 V				±1			±1	μΑ
los‡	$V_{CC} = 5.5 \text{ V},$	VOUT = 0 V		-60	-120	-225				mA
iOS+	$V_{CC} = 5.25 \text{ V},$	VOUT = 0 V					-60	-120	-225	ША
lozu	$V_{CC} = 5.5 \text{ V},$	$V_{IN} = 2.7 \text{ V}$				10				μΑ
IOZH	$V_{CC} = 5.25 \text{ V},$	$V_{IN} = 2.7 \text{ V}$							10	μΛ
1071	$V_{CC} = 5.5 \text{ V},$	V <sub>IN</sub> = 0.5 V				-10				μА
lozL	$V_{CC} = 5.25 \text{ V},$								-10	μΛ
loo	$V_{CC} = 5.5 V$	$V_{IN} \le 0.2 V$	$V_{IN} \ge V_{CC} - 0.2 \text{ V}$		0.1	0.2				mA
Icc	$V_{CC} = 5.25 \text{ V},$	$V_{IN} \le 0.2 V$	$V_{IN} \ge V_{CC} - 0.2 \text{ V}$					0.1	0.2	IIIA
Alco	$V_{CC} = 5.5 \text{ V}, \text{ V}_{I}$	$N = 3.4 \text{ V}$ , $f_1 = 0$ ,	Outputs open		0.5	2				mA
∆ICC	V <sub>CC</sub> = 5.25 V, V	$IN = 3.4 \text{ V}$ , $f_1 = 0$ ,	Outputs open		•			0.5	2	IIIA

<sup>&</sup>lt;sup>†</sup> Typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 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, IOS tests should be performed last.

<sup>§</sup> Per TTL-driven input (V<sub>IN</sub> = 3.4 V); all other inputs at V<sub>CC</sub> or GND

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

DADAMETER		CY	'54FCT57	'4T	CY	74FCT57	4T	UNIT		
PARAMETER		TEST CONDITIO	MIN	TYP <sup>†</sup>	MAX	MIN	TYP <sup>†</sup>	MAX	UNII	
ICCD¶		tputs open, g at 50% duty cycle $N \ge V_{CC} - 0.2 V$		0.06	0.12				mA/	
ICCD.	$V_{CC} = 5.25 \text{ V, O}$ One bit switching $V_{IN} \le 0.2 \text{ V or V}$					0.06	0.12	MHz		
		One bit switching at f <sub>1</sub> = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$		0.7	1.4				
	$V_{CC} = 5.5 \text{ V},$ $f_0 = 10 \text{ MHz},$	at 50% duty cycle	V <sub>IN</sub> = 3.4 V or GND		1.2	3.4				
	Outputs open, OE = GND		$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$		1.6	3.2				
l <sub>C</sub>		at 50% duty cycle	V <sub>IN</sub> = 3.4 V or GND		3.9	12.2				mA
10		One bit switching at f <sub>1</sub> = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$					0.7	1.4	IIIA
	$V_{CC} = 5.25 \text{ V},$ $f_0 = 10 \text{ MHz},$	at 50% duty cycle	V <sub>IN</sub> = 3.4 V or GND					1.2	3.4	
	Outputs open, OE = GND Eight bits switching at f <sub>1</sub> = 2.5 MHz		$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$					1.6	3.2	
		at 50% duty cycle	V <sub>IN</sub> = 3.4 V or GND					3.9	12.2	
Ci		-			5	10		5	10	pF
Co					9	12		9	12	pF

<sup>†</sup> Typical values are at  $V_{CC} = 5 \text{ V}$ ,  $T_A = 25^{\circ}\text{C}$ .

Where:

I<sub>C</sub> = Total supply current

ICC = Power-supply current with CMOS input levels

 $\Delta I_{CC}$  = Power-supply current for a TTL high input ( $V_{IN} = 3.4 \text{ V}$ )

D<sub>H</sub> = Duty cycle for TTL inputs high N<sub>T</sub> = Number of TTL inputs at D<sub>H</sub>

I<sub>CCD</sub> = Dynamic current caused by an input transition pair (HLH or LHL)

f<sub>0</sub> = Clock frequency for registered devices, otherwise zero

f<sub>1</sub> = 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<sub>CC</sub> formula.



 $<sup>\</sup>P$  This parameter is derived for use in total power-supply calculations.

 $<sup>^{\#}</sup>$ IC = ICC +  $\Delta$ ICC  $\times$  DH  $\times$  NT + ICCD (f<sub>0</sub>/2 + f<sub>1</sub>  $\times$  N<sub>1</sub>)

### CY54FCT574T, CY74FCT574T 8-BIT REGISTERS WITH 3-STATE OUTPUTS

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

		CY54FCT574T		CY54FCT574AT		CY54FCT574CT		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t <sub>W</sub>	Pulse duration, CP high or low	7		6		6		ns
t <sub>su</sub>	Setup time, data before CP↑	2		2		2		ns
t <sub>h</sub>	Hold time, data after CP↑	1.5		1.5		1.5	·	ns

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

		CY74FC		CY74FCT574AT		CY74FCT574CT		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t <sub>W</sub>	Pulse duration, CP high or low	7		5		5		ns
t <sub>su</sub>	Setup time, data before CP↑	2		2		2		ns
t <sub>h</sub>	Hold time, data after CP↑	1.5		1.5		1.5		ns

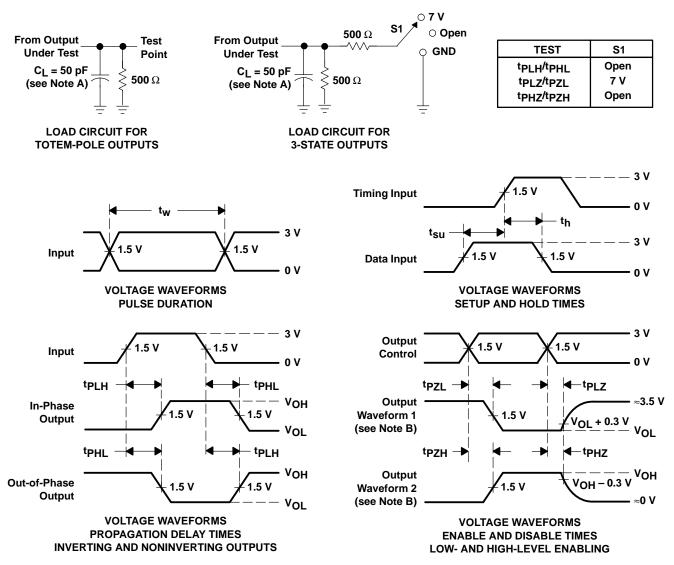
### switching characteristics over operating free-air temperature range (see Figure 1)

PARAMETER	FROM	TO (OUTPUT)	CY54FC	CY54FCT574T		CY54FCT574AT		CY54FCT574CT	
PARAMETER	(INPUT)		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t <sub>PLH</sub>	СР	0	2	11	2	7.2	2	6.2	20
tpHL	CF	O	2	11	2	7.2	2	6.2	ns
<sup>t</sup> PZH	ŌĒ	0	1.5	14	1.5	7.5	1.5	6.2	no
t <sub>PZL</sub>	OE	O	1.5	14	1.5	7.5	1.5	6.2	ns
t <sub>PHZ</sub>	ŌĒ	0	1.5	8	1.5	6.5	1.5	5.7	no
tPLZ	OE	0	1.5	8	1.5	6.5	1.5	5.7	ns

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

PARAMETER	FROM	то	CY74FC	T574T	CY74FC	Γ574AT	CY74FC1	574CT	UNIT	
PARAMETER	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	MIN	MAX	UNIT	
<sup>t</sup> PLH	СР	0	2	10	2	6.5	2	5.2	ns	
<sup>t</sup> PHL	OF .		2	10	2	6.5	2	5.2	115	
<sup>t</sup> PZH	ŌĒ	0	o	1.5	12.5	1.5	6.5	1.5	5.5	no
<sup>t</sup> PZL	OE .	U	1.5	12.5	1.5	6.5	1.5	5.5	ns	
<sup>t</sup> PHZ	ŌĒ	0	1.5	8	1.5	5.5	1.5	5	no	
<sup>t</sup> PLZ	]	0	1.5	8	1.5	5.5	1.5	5	ns	

### PARAMETER MEASUREMENT INFORMATION



NOTES: A. C<sub>L</sub> 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	e Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
5962-9222203M2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
5962-9222203MRA	ACTIVE	CDIP	J	20	1	TBD	A42 SNPB	N / A for Pkg Type
5962-9222205MRA	ACTIVE	CDIP	J	20	1	TBD	A42 SNPB	N / A for Pkg Type
CY54FCT574ATLMB	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
CY74FCT574ATQCT	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574ATQCTE4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574ATQCTG4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574ATSOC	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574ATSOCE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574ATSOCG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574ATSOCT	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574ATSOCTE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574ATSOCTG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTQCT	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574CTQCTE4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574CTQCTG4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574CTSOC	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTSOCE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTSOCG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTSOCT	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTSOCTE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574CTSOCTG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574TQCT	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574TQCTE4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574TQCTG4	ACTIVE	SSOP/ QSOP	DBQ	20	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
CY74FCT574TSOC	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574TSOCE4	ACTIVE	SOIC	DW	20	25	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM



### PACKAGE OPTION ADDENDUM

9-Oct-2007

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/Ball Finish	MSL Peak Temp <sup>(3)</sup>
						no Sb/Br)		
CY74FCT574TSOCG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574TSOCT	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574TSOCTE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT574TSOCTG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

(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) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

**Pb-Free** (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

**Pb-Free (RoHS Exempt):** This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

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

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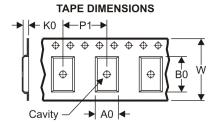




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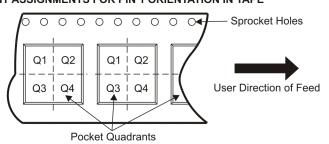
### TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
В0	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

All difficults are nothinal												
Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CY74FCT574ATQCT	SSOP/ QSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT574ATSOCT	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
CY74FCT574CTQCT	SSOP/ QSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT574CTSOCT	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
CY74FCT574TQCT	SSOP/ QSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT574TSOCT	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1





\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CY74FCT574ATQCT	SSOP/QSOP	DBQ	20	2500	346.0	346.0	33.0
CY74FCT574ATSOCT	SOIC	DW	20	2000	346.0	346.0	41.0
CY74FCT574CTQCT	SSOP/QSOP	DBQ	20	2500	346.0	346.0	33.0
CY74FCT574CTSOCT	SOIC	DW	20	2000	346.0	346.0	41.0
CY74FCT574TQCT	SSOP/QSOP	DBQ	20	2500	346.0	346.0	33.0
CY74FCT574TSOCT	SOIC	DW	20	2000	346.0	346.0	41.0

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