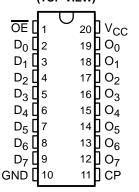
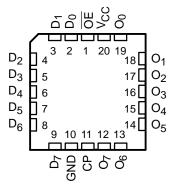
SCCS073 - OCTOBER 2001

- 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	CDIP – D	Tube	7.2	CY54FCT574ATDMB	
	LCC – L	Tube	7.2	CY54FCT574ATLMB	

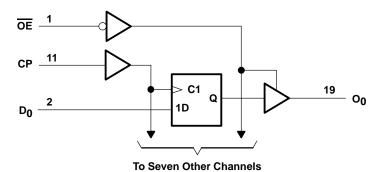
<sup>†</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

### **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

SCCS073 - OCTOBER 2001

## 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)

		CY	54FCT57	4T	CY	74FCT57	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

SCCS073 - OCTOBER 2001

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

DADAMETED		TEST CONDITIONS				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		
$V_{OL}$ $V_{CC} = 4.5 \text{ V},$	$V_{CC} = 4.5 \text{ V},$	$I_{OL} = 32 \text{ mA}$			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
ŀΙΗ	$V_{CC} = 5.25 \text{ V},$	$V_{1N} = 2.7 V$							±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

SCCS073 - OCTOBER 2001

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

DADAMETER		TEST CONDITIO	Ne	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 $N \ge V_{CC} - 0.2 V$	, <del>OE</del> = GND,		0.06	0.12				mA/
ICCD.	One bit switching	= 5.25 V, Outputs open, bit switching at 50% duty cycle, $\overline{OE}$ = GND, 0.2 V or $V_{IN} \ge V_{CC} - 0.2 \text{ V}$						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	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				
l <sub>C</sub>		at 50% duty cycle	V <sub>IN</sub> = 3.4 V or GND		3.9	12.2				mA
l C		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

SCCS073 - OCTOBER 2001

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

		CY54FC	T574T	CY54FC1	574AT	CY54FCT	574CT	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	T574T	CY74FC1	574AT	CY74FCT	574CT	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

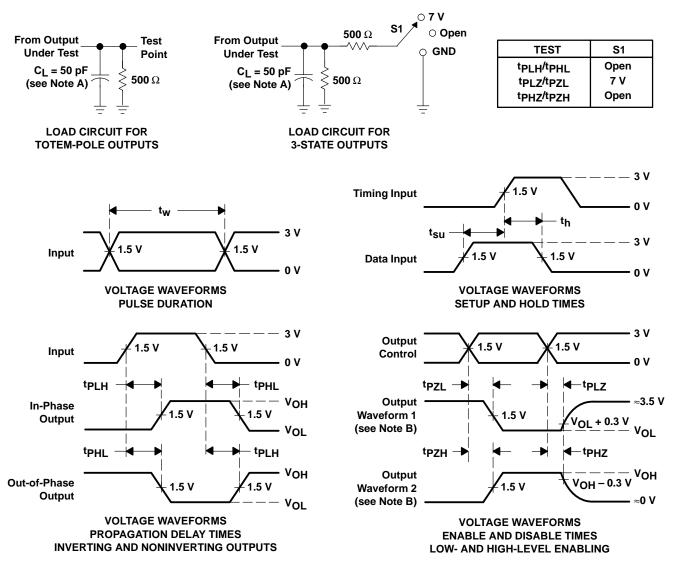
## switching characteristics over operating free-air temperature range (see Figure 1)

PARAMETER	FROM	то	CY54FC	CY54FCT574T		CY54FCT574AT		CY54FCT574CT	
PARAMETER	(INPUT)	(OUTPUT)	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
<sup>t</sup> PHZ	ŌĒ	0	1.5	8	1.5	6.5	1.5	5.7	no
tPLZ	OE	O	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	CY74FCT574T		CY74FCT574AT		CY74FCT574CT	
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 .	O	2	10	2	6.5	2	5.2	115
<sup>t</sup> PZH	ŌĒ	0	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

www.ti.com 23-May-2025

### **PACKAGING INFORMATION**

Orderable part number	Status (1)	Material type (2)	Package   Pins	Package qty   Carrier	<b>RoHS</b> (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
5962-9222203M2A	Active	Production	LCCC (FK)   20	55   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9222203M2A CY54FCT 574ATLMB
5962-9222203MRA	Active	Production	CDIP (J)   20	20   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9222203MR A
5962-9222205MRA	Active	Production	CDIP (J)   20	20   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9222205MR A
CY54FCT574ATLMB	Active	Production	LCCC (FK)   20	55   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9222203M2A CY54FCT 574ATLMB
CY74FCT574ATQCT	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574A
CY74FCT574ATQCT.B	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574A
CY74FCT574ATSOC	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574A
CY74FCT574ATSOC.B	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574A
CY74FCT574CTQCT	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574C
CY74FCT574CTQCT.B	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574C
CY74FCT574CTSOC	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574C
CY74FCT574CTSOC.B	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574C
CY74FCT574TQCT	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574
CY74FCT574TQCT.B	Active	Production	SSOP (DBQ)   20	2500   LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT574
CY74FCT574TSOC	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574
CY74FCT574TSOC.B	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574
CY74FCT574TSOCG4.B	Active	Production	SOIC (DW)   20	25   TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT574

<sup>(1)</sup> Status: For more details on status, see our product life cycle.

<sup>(2)</sup> Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.



## PACKAGE OPTION ADDENDUM

www.ti.com 23-May-2025

- (3) RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.
- (4) Lead finish/Ball material: Parts 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.
- (5) MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.
- (6) Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

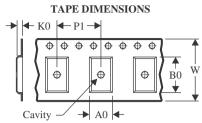
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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

www.ti.com 23-May-2025

## TAPE AND REEL INFORMATION





A0	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

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CY74FCT574ATQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT574CTQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT574TQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1



www.ti.com 23-May-2025



#### \*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)	
CY74FCT574ATQCT	SSOP	DBQ	20	2500	356.0	356.0	35.0	
CY74FCT574CTQCT	SSOP	DBQ	20	2500	356.0	356.0	35.0	
CY74FCT574TQCT	SSOP	DBQ	20	2500	356.0	356.0	35.0	

## **PACKAGE MATERIALS INFORMATION**

www.ti.com 23-May-2025

## **TUBE**



\*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9222203M2A	FK	LCCC	20	55	506.98	12.06	2030	NA
CY54FCT574ATLMB	FK	LCCC	20	55	506.98	12.06	2030	NA
CY74FCT574ATSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574ATSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574CTSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574CTSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574TSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574TSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT574TSOCG4.B	DW	SOIC	20	25	507	12.83	5080	6.6

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