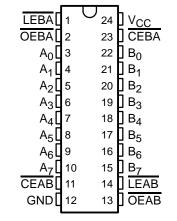
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- Function, Pinout, and Drive Compatible With FCT and F Logic
- Reduced V_{OH} (Typically = 3.3 V) Versions of Equivalent FCT Functions
- **Edge-Rate Control Circuitry for** Significantly Improved Noise Characteristics
- I_{off} Supports Partial-Power-Down Mode Operation
- **Matched Rise and Fall Times**
- Fully Compatible With TTL Input and **Output Logic Levels**
- 3-State Outputs
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)
- **Separation Controls for Data Flow in Each** Direction
- **Back-to-Back Latches for Storage**
- CY54FCT543T
 - 48-mA Output Sink Current
 - 12-mA Output Source Current
- CY74FCT543T
 - 64-mA Output Sink Current
 - 32-mA Output Source Current

CY54FCT543T . . . D PACKAGE CY74FCT543T...Q OR SO PACKAGE (TOP VIEW)



description

The 'FCT543T octal latched transceivers contain two sets of eight D-type latches with separate latch-enable (LEAB, LEBA) and output-enable (OEAB, OEBA) inputs for each set to permit independent control of input and output in either direction of data flow. For data flow from A to B, for example, the A-to-B enable (CEAB) input must be low in order to enter data from A or to take data from B, as indicated in the function table. With CEAB low, a low signal on the A-to-B latch-enable (LEAB) input makes the A-to-B latches transparent; a subsequent low-to-high transition of the LEAB signal puts the A latches in the storage mode and their outputs no longer change with the A inputs. With CEAB and OEAB low, the 3-state B-output buffers are active and reflect the data present at the output of the A latches. Control of data from B to A is similar, but uses CEBA, LEBA, and OEBA inputs.

These devices are fully specified for partial-power-down applications using Ioff. The Ioff 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.



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PIN DESCRIPTION

NAME	DESCRIPTION
OEAB	A-to-B output-enable input (active low)
OEBA	B-to-A output-enable input (active low)
CEAB	A-to-B enable input (active low)
CEBA	B-to-A enable input (active low)
LEAB	A-to-B latch-enable input (active low)
LEBA	B-to-A latch-enable input (active low)
Α	A-to-B data inputs or B-to-A 3-state outputs
В	B-to-A data inputs or A-to-B 3-state outputs

ORDERING INFORMATION

TA	PACI	KAGE†	SPEED (ns)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	QSOP - Q	Tape and reel	5.3	CY74FCT543CTQCT	FCT543C
	SOIC - SO	Tube	5.3	CY74FCT543CTSOC	FCT543C
–40°C to 85°C	3010 - 30	Tape and reel	5.3	CY74FCT543CTSOCT	FC1543C
	QSOP - Q	Tape and reel	6.5	CY74FCT543ATQCT	FCT543A
	SOIC - SO	Tube	6.5	CY74FCT543ATSOC	FCT543A
		Tape and reel	6.5	CY74FCT543ATSOCT	FC1543A
	QSOP - Q	Tape and reel	8.5	CY74FCT543TQCT	FCT543
	SOIC - SO	Tube	8.5	CY74FCT543TSOC	FCT543
	30IC = 30	Tape and reel	8.5	CY74FCT543TSOCT	FC1543
-55°C to 125°C	CDIP – D	Tube	10	CY54FCT543TDMB	
-33 C to 125 C	CDIF - D	Tube	10	CY54FCT543TLMB	

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

FUNCTION TABLE‡

	INPUTS		LATCH	OUTPUT
CEAB	LEAB	OEAB	А ТО В§	В
Н	Х	Х	Storing	Z
Х	Н	Χ	Storing	Х
Х	Χ	Н	X	Z
L	L	L	Transparent	Current A inputs
L	Н	L	Storing	Previous A inputs

H = High logic level, L = Low logic level, X = Don't care,

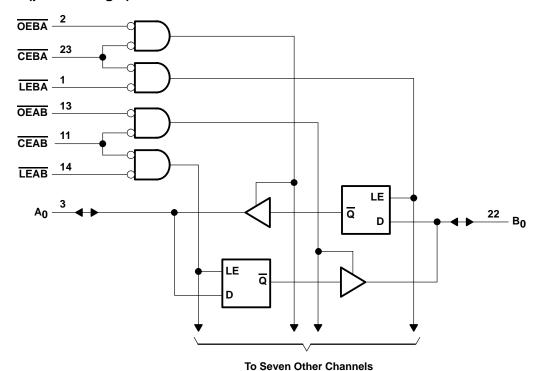


Z = High-impedance state

[‡] A-to-B data flow shown; B-to-A flow control is the same, except uses CEBA, LEBA, and OEBA.

[§] Before LEAB low-to-high transition

logic diagram (positive logic)



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

Supply voltage range to ground potential	\dots -0.5 V to 7 V
DC input voltage range	\dots -0.5 V to 7 V
DC output voltage range	\dots -0.5 V to 7 V
DC output current (maximum sink current/pin)	120 mA
Package thermal impedance, θ _{JA} (see Note 1): Q package	61°C/W
SO package	46°C/W
Ambient temperature range with power applied, T _A	-65°C to 135°C
Storage temperature range, T _{stg}	–65°C to 150°C

[†] 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:	54FCT54	3T	CY	74FCT54	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
٧ _{IL}	Low-level input voltage			0.8			0.8	V
ЮН	High-level output current			-12			-32	mA
loL	Low-level output current			48			64	mA
TA	Operating free-air temperature	-55		125	-40		85	°C

NOTE 2: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation.



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

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

BARAMETER	TEST COMPLETIONS	CY5	4FCT54	I3T	CY	74FCT54	3T	
PARAMETER	TEST CONDITIONS	MIN	TYP [†]	MAX	MIN	TYP [†]	MAX	UNIT
Viiis	$V_{CC} = 4.5 \text{ V}, \qquad I_{IN} = -18 \text{ mA}$		-0.7	-1.2				V
VIK	$V_{CC} = 4.75 \text{ V}, \qquad I_{IN} = -18 \text{ mA}$					-0.7	-1.2	V
	$V_{CC} = 4.5 \text{ V}, \qquad I_{OH} = -12 \text{ mA}$	2.4	3.3					
Vон	V _{CC} = 4.75 V				2			V
	$I_{OH} = -15 \text{ mA}$				2.4	3.3		
VOL	$V_{CC} = 4.5 \text{ V}, \qquad I_{OL} = 48 \text{ mA}$		0.3	0.55				٧
VOL	$V_{CC} = 4.75 \text{ V}, \qquad I_{OL} = 64 \text{ mA}$					0.3	0.55	V
V_{hys}	All inputs		0.2			0.2		V
II	$V_{CC} = 5.5 \text{ V}, \qquad V_{IN} = V_{CC}$			5				μA
'1	$V_{CC} = 5.25 \text{ V}, \qquad V_{IN} = V_{CC}$						5	μΛ
l	$V_{CC} = 5.5 \text{ V}, \qquad V_{IN} = 2.7 \text{ V}$			±1				μA
ЧН	$V_{CC} = 5.25 \text{ V}, \qquad V_{IN} = 2.7 \text{ V}$						±1	μΛ
IIL	$V_{CC} = 5.5 \text{ V}, \qquad V_{IN} = 0.5 \text{ V}$			±1				μA
'IL	$V_{CC} = 5.25 \text{ V}, \qquad V_{IN} = 0.5 \text{ V}$						±1	μΛ
IOZH	$V_{CC} = 5.5 \text{ V}, \qquad V_{OUT} = 2.7 \text{ V}$			10				μA
'OZH	$V_{CC} = 5.25 \text{ V}, \qquad V_{OUT} = 2.7 \text{ V}$						10	μιτ
lozL	$V_{CC} = 5.5 \text{ V}, \qquad V_{OUT} = 0.5 \text{ V}$			-10				μA
10ZL	$V_{CC} = 5.25 \text{ V}, \qquad V_{OUT} = 0.5 \text{ V}$						-10	μιτ
los‡	$V_{CC} = 5.5 \text{ V}, \qquad V_{OUT} = 0 \text{ V}$	-60	-120	-225				mA
108+	$V_{CC} = 5.25 \text{ V}, \qquad V_{OUT} = 0 \text{ V}$				-60	-120	-225	ША
l _{off}	$V_{CC} = 0 \text{ V}, \qquad V_{OUT} = 4.5 \text{ V}$			±1			±1	μΑ
Icc	$V_{CC} = 5.5 \text{ V}, \qquad V_{IN} \le 0.2 \text{ V}, \qquad V_{IN} \ge V_{CC} - 0.2 \text{ V}$		0.1	0.2				mA
.00	$V_{CC} = 5.25 \text{ V}, \qquad V_{IN} \le 0.2 \text{ V}, \qquad V_{IN} \ge V_{CC} - 0.2 \text{ V}$					0.1	0.2	, \
Δlcc	$V_{CC} = 5.5 \text{ V}, V_{IN} = 3.4 \text{ V}$, $f_1 = 0$, Outputs open		0.5	2				mA
<u> </u>	$V_{CC} = 5.25 \text{ V}, V_{IN} = 3.4 \text{ V}$, $f_1 = 0$, Outputs open					0.5	2	1117 (
loos¶	V_{CC} = 5.5 V, Outputs open, One input switching at 50% duty cycle, CEAB and OEAB = low, CEBA = high, $V_{IN} \le 0.2 \text{ V or } V_{IN} \ge V_{CC} - 0.2 \text{ V}$		0.06	0.12				mA/
ICCD¶	$\begin{split} &V_{CC} = 5.25 \text{ V}, \text{ Outputs open,} \\ &\underbrace{\text{One input switching at 50\% duty cycle,}} \\ &\underbrace{\text{CEAB}} \text{ and } \underbrace{\text{OEAB}} = \text{low, } \underbrace{\text{CEBA}} = \text{high,} \\ &V_{IN} \leq 0.2 \text{ V or } V_{IN} \geq V_{CC} - 0.2 \text{ V} \end{split}$					0.06	0.12	MHz

[†] Typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.



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.

[§] 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.

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

DADAMETED	_	TOT CONDITION	c	CY	54FCT54	3T	CY	74FCT54	3T	LINIT
PARAMETER	l	EST CONDITION	3	MIN	TYP [†]	MAX	MIN	TYP [†]	MAX	UNIT
	V _{CC} = 5.5 V,	One bit switching at f ₁ = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$		0.7	1.4				
	f ₀ = 10 MHz, Outputs open,	at 50% duty cycle	V _{IN} = 3.4 V or GND		1.2	3.4				
	\overline{CEAB} and \overline{OEAB} = low, \overline{CEBA} = high, $\overline{f_0}$ = \overline{LEAB} = 10 MHz	Eight bits switching at f ₁ = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$		2.8	5.6				
IC#		at 50% duty cycle	V _{IN} = 3.4 V or GND		5.1	14.6				mA
IC	V _{CC} = 5.25 V,	One bit switching at f ₁ = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$					0.7	1.4	ША
	f ₀ = 10 MHz, Outputs open,	at 50% duty cycle	V _{IN} = 3.4 V or GND					1.2	3.4	
	CEAB and OEAB = low, CEBA = high, f ₀ = LEAB = 10 MHz	Eight bits switching at f ₁ = 5 MHz	$V_{IN} \le 0.2 \text{ V or}$ $V_{IN} \ge V_{CC} - 0.2 \text{ V}$					2.8	5.6	
		at 50% duty cycle	V _{IN} = 3.4 V or GND					5.1	14.6	
C _i					5	10		5	10	pF
Co					9	12		9	12	pF

[†] Typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

 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

ICCD = Dynamic current caused by an input transition pair (HLH or LHL)

f₀ = Clock frequency for registered devices, otherwise zero

f₁ = Input signal frequency

N₁ = Number of inputs changing at f₁

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)

	PARAMETER	CY54FCT543T		CY74FCT543T		CY74FC1	7543AT	CY74FCT	UNIT	
	FARAMETER	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration, LEAB or LEBA	5		5		5		5		ns
t _{su}	Setup time, data before $\overline{LEAB}\ \downarrow\ or\ \overline{LEBA}\ \downarrow$	3		2		2		2		ns
t _h	Hold time, data after LEAB↓ or LEBA↓	2		2		2		2		ns



[#] IC = ICC + \triangle ICCDHNT + ICCD(f₀/2 + f₁N₁) ICC = Quiescent current with CMOS input levels

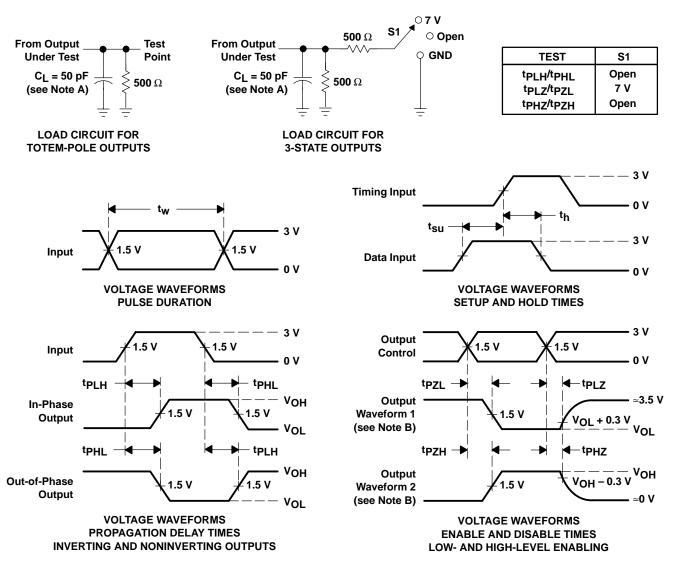
CY54FCT543T, CY74FCT543T 8-BIT LATCHED REGISTERED TRANSCEIVERS WITH 3-STATE OUTPUTS SCCS030A – MAY 1994 – REVISED OCTOBER 2001

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

PARAMETER	FROM	то	CY54FC	T543T	CY74FC	T543T	CY74FC1	543AT	CY74FCT	543CT	UNIT
FARAMETER	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	01411
^t PLH	A or B	B or A	2	10	2.5	8.5	2.5	6.5	2.5	5.3	ns
^t PHL	AOIB	BOIA	2	10	2.5	8.5	2.5	6.5	2.5	5.3	115
^t PLH	LEBA or LEAB	A or B	2.5	14	2.5	12.5	2.5	8	2.5	7	ns
^t PHL	LEBA OI LEAD	AOIB	2.5	14	2.5	12.5	2.5	8	2.5	7	115
^t PZH	OEBA or OEAB	A or B	2	14	2	12	2	9	2	8	ns
^t PZL	OLBA OI OLAB	AOIB	2	14	2	12	2	9	2	8	115
^t PZH	CEBA or CEAB	A or B	2	14	2	12	2	9	2	8	ns
^t PZL	CEBA OI CEAB	AOIB	2	14	2	12	2	9	2	8	115
^t PHZ	OEBA or OEAB	A or P	2	13	2	9	2	7.5	2	6.5	ns
^t PLZ	OEDA UI OEAB	A or B	2	13	2	9	2	7.5	2	6.5	115
^t PHZ	CEBA or CEAB	A or B	2	13	2	9	2	7.5	2	6.5	20
t _{PLZ}	CEDA UI CEAB	AUID	2	13	2	9	2	7.5	2	6.5	ns



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

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PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
5962-9222101M3A	Active	Production	LCCC (FK) 28	42 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9222101M3A CY54FCT 543TLMB
5962-9222101MLA	Active	Production	CDIP (JT) 24	15 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9222101ML A CY54FCT543TDMB
CY54FCT543TDMB	Active	Production	CDIP (JT) 24	15 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9222101ML A CY54FCT543TDMB
CY54FCT543TLMB	Active	Production	LCCC (FK) 28	42 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9222101M3A CY54FCT 543TLMB
CY74FCT543ATQCT	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543A
CY74FCT543ATQCT.B	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543A
CY74FCT543ATQCTG4	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543A
CY74FCT543ATQCTG4.B	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543A
CY74FCT543ATSOC	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543A
CY74FCT543ATSOC.B	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543A
CY74FCT543TQCT	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543
CY74FCT543TQCT.B	Active	Production	SSOP (DBQ) 24	2500 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543
CY74FCT543TSOC	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543
CY74FCT543TSOC.B	Active	Production	SOIC (DW) 24	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543
CY74FCT543TSOCT	Active	Production	SOIC (DW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543
CY74FCT543TSOCT.B	Active	Production	SOIC (DW) 24	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543

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

⁽²⁾ 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

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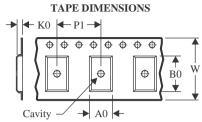
In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

PACKAGE MATERIALS INFORMATION

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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

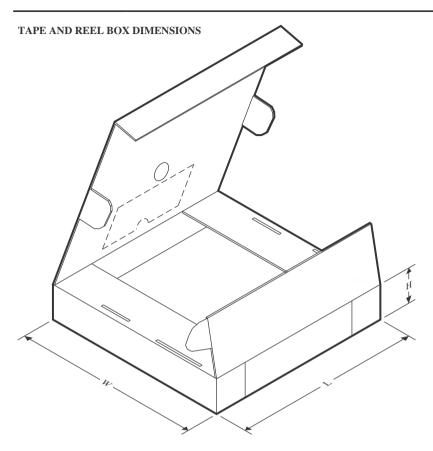
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
CY74FCT543ATQCT	SSOP	DBQ	24	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT543ATQCTG4	SSOP	DBQ	24	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT543TQCT	SSOP	DBQ	24	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT543TSOCT	SOIC	DW	24	2000	330.0	24.4	10.75	15.7	2.7	12.0	24.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	kage Drawing Pins SPQ Len		Length (mm)	Width (mm)	Height (mm)				
CY74FCT543ATQCT	SSOP	DBQ	24	2500	353.0	353.0	32.0				
CY74FCT543ATQCTG4	SSOP	DBQ	24	2500	353.0	353.0	32.0				
CY74FCT543TQCT	SSOP	DBQ	24	2500	353.0	353.0	32.0				
CY74FCT543TSOCT	SOIC	DW	24	2000	350.0	350.0	43.0				

PACKAGE MATERIALS INFORMATION

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TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
CY74FCT543ATSOC	DW	SOIC	24	25	506.98	12.7	4826	6.6
CY74FCT543ATSOC.B	DW	SOIC	24	25	506.98	12.7	4826	6.6
CY74FCT543TSOC	DW	SOIC	24	25	506.98	12.7	4826	6.6
CY74FCT543TSOC.B	DW	SOIC	24	25	506.98	12.7	4826	6.6

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Last updated 10/2025