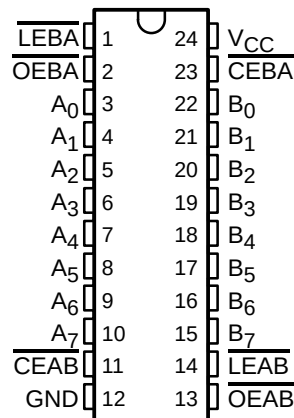


CY54FCT543T, CY74FCT543T 8-BIT LATCHED REGISTERED TRANSCEIVERS WITH 3-STATE OUTPUTS

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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 ($\overline{LEAB}$, $\overline{LEBA}$) and output-enable ($\overline{OEAB}$, $\overline{OEBA}$) 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 ($\overline{CEAB}$) input must be low in order to enter data from A or to take data from B, as indicated in the function table. With $\overline{CEAB}$ low, a low signal on the A-to-B latch-enable ($\overline{LEAB}$) input makes the A-to-B latches transparent; a subsequent low-to-high transition of the $\overline{LEAB}$ signal puts the A latches in the storage mode and their outputs no longer change with the A inputs. With $\overline{CEAB}$ and $\overline{OEAB}$ 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 $\overline{CEBA}$, $\overline{LEBA}$, and $\overline{OEBA}$ inputs.

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.



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

**TEXAS
INSTRUMENTS**

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On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

CY54FCT543T, CY74FCT543T

8-BIT LATCHED REGISTERED TRANSCEIVERS

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PIN DESCRIPTION

NAME	DESCRIPTION
$\overline{\text{OEAB}}$	A-to-B output-enable input (active low)
$\overline{\text{OEBA}}$	B-to-A output-enable input (active low)
$\overline{\text{CEAB}}$	A-to-B enable input (active low)
$\overline{\text{CEBA}}$	B-to-A enable input (active low)
$\overline{\text{LEAB}}$	A-to-B latch-enable input (active low)
$\overline{\text{LEBA}}$	B-to-A latch-enable input (active low)
A	A-to-B data inputs or B-to-A 3-state outputs
B	B-to-A data inputs or A-to-B 3-state outputs

ORDERING INFORMATION

T _A	PACKAGE†		SPEED (ns)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	QSOP – Q	Tape and reel	5.3	CY74FCT543CTQCT	FCT543C
	SOIC – SO	Tube	5.3	CY74FCT543CTSOC	FCT543C
		Tape and reel	5.3	CY74FCT543CTSOCT	
	QSOP – Q	Tape and reel	6.5	CY74FCT543ATQCT	FCT543A
	SOIC – SO	Tube	6.5	CY74FCT543ATSOC	FCT543A
		Tape and reel	6.5	CY74FCT543ATSOCT	
	QSOP – Q	Tape and reel	8.5	CY74FCT543TQCT	FCT543
	SOIC – SO	Tube	8.5	CY74FCT543TSOC	FCT543
		Tape and reel	8.5	CY74FCT543TSOCT	
–55°C to 125°C	CDIP – D	Tube	10	CY54FCT543TDMB	
		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 A TO B§	OUTPUT B
$\overline{\text{CEAB}}$	$\overline{\text{LEAB}}$	$\overline{\text{OEAB}}$		
H	X	X	Storing	Z
X	H	X	Storing	X
X	X	H	X	Z
L	L	L	Transparent	Current A inputs
L	H	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 $\overline{\text{CEBA}}$, $\overline{\text{LEBA}}$, and $\overline{\text{OEBA}}$.

§ Before $\overline{\text{LEAB}}$ low-to-high transition



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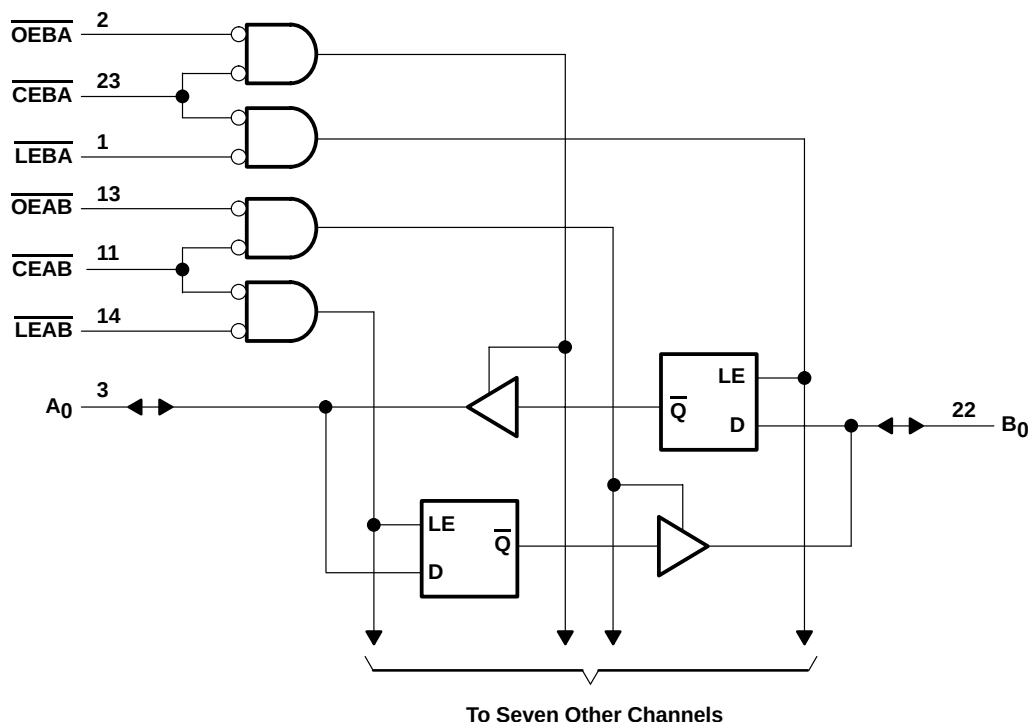
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8-BIT LATCHED REGISTERED TRANSCEIVERS

WITH 3-STATE OUTPUTS

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logic diagram (positive logic)



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_{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.

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

recommended operating conditions (see Note 2)

	CY54FCT543T			CY74FCT543T			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			48			64	mA
T_A 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.



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

PARAMETER	TEST CONDITIONS	CY54FCT543T			CY74FCT543T			UNIT
		MIN	TYP†	MAX	MIN	TYP†	MAX	
V_{IK}	$V_{CC} = 4.5 \text{ V}$, $I_{IN} = -18 \text{ mA}$	-0.7	-1.2					V
	$V_{CC} = 4.75 \text{ V}$, $I_{IN} = -18 \text{ mA}$				-0.7	-1.2		
V_{OH}	$V_{CC} = 4.5 \text{ V}$, $I_{OH} = -12 \text{ mA}$	2.4	3.3					V
	$V_{CC} = 4.75 \text{ V}$, $I_{OH} = -32 \text{ mA}$				2			
	$V_{CC} = 4.75 \text{ V}$, $I_{OH} = -15 \text{ mA}$				2.4	3.3		
V_{OL}	$V_{CC} = 4.5 \text{ V}$, $I_{OL} = 48 \text{ mA}$	0.3	0.55					V
	$V_{CC} = 4.75 \text{ V}$, $I_{OL} = 64 \text{ mA}$				0.3	0.55		
V_{hys}	All inputs	0.2			0.2			V
I_I	$V_{CC} = 5.5 \text{ V}$, $V_{IN} = V_{CC}$			5				μA
	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = V_{CC}$						5	
I_{IH}	$V_{CC} = 5.5 \text{ V}$, $V_{IN} = 2.7 \text{ V}$			± 1				μA
	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = 2.7 \text{ V}$						± 1	
I_{IL}	$V_{CC} = 5.5 \text{ V}$, $V_{IN} = 0.5 \text{ V}$			± 1				μA
	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = 0.5 \text{ V}$						± 1	
I_{OZH}	$V_{CC} = 5.5 \text{ V}$, $V_{OUT} = 2.7 \text{ V}$			10				μA
	$V_{CC} = 5.25 \text{ V}$, $V_{OUT} = 2.7 \text{ V}$						10	
I_{OZL}	$V_{CC} = 5.5 \text{ V}$, $V_{OUT} = 0.5 \text{ V}$			-10				μA
	$V_{CC} = 5.25 \text{ V}$, $V_{OUT} = 0.5 \text{ V}$						-10	
$I_{OS}^\ddagger$	$V_{CC} = 5.5 \text{ V}$, $V_{OUT} = 0 \text{ V}$	-60	-120	-225				mA
	$V_{CC} = 5.25 \text{ V}$, $V_{OUT} = 0 \text{ V}$				-60	-120	-225	
I_{off}	$V_{CC} = 0 \text{ V}$, $V_{OUT} = 4.5 \text{ V}$			± 1			± 1	μA
I_{CC}	$V_{CC} = 5.5 \text{ V}$, $V_{IN} \leq 0.2 \text{ V}$, $V_{IN} \geq V_{CC} - 0.2 \text{ V}$		0.1	0.2				mA
	$V_{CC} = 5.25 \text{ V}$, $V_{IN} \leq 0.2 \text{ V}$, $V_{IN} \geq V_{CC} - 0.2 \text{ V}$					0.1	0.2	
ΔI_{CC}	$V_{CC} = 5.5 \text{ V}$, $V_{IN} = 3.4 \text{ V}^\S$, $f_1 = 0$, Outputs open		0.5	2				mA
	$V_{CC} = 5.25 \text{ V}$, $V_{IN} = 3.4 \text{ V}^\S$, $f_1 = 0$, Outputs open					0.5	2	
$I_{CCD}^\P$	$V_{CC} = 5.5 \text{ V}$, Outputs open, One input switching at 50% duty cycle, CEAB and OEAB = low, CEBA = high, $V_{IN} \leq 0.2 \text{ V}$ or $V_{IN} \geq V_{CC} - 0.2 \text{ V}$		0.06	0.12				mA/ MHz
	$V_{CC} = 5.25 \text{ V}$, Outputs open, One input switching at 50% duty cycle, CEAB and OEAB = low, CEBA = high, $V_{IN} \leq 0.2 \text{ V}$ or $V_{IN} \geq V_{CC} - 0.2 \text{ V}$					0.06	0.12	

† 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, I_{OS} tests should be performed last.

§ Per TTL-driven input ($V_{IN} = 3.4 \text{ V}$); 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)

PARAMETER	TEST CONDITIONS			CY54FCT543T			CY74FCT543T			UNIT
				MIN	TYP†	MAX	MIN	TYP†	MAX	
I _C [#]	V _{CC} = 5.5 V, f ₀ = 10 MHz, Outputs open, CEAB and OEAB = low, CEBA = high, f ₀ = LEAB = 10 MHz	One bit switching at f ₁ = 5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} − 0.2 V	0.7	1.4				mA	
			V _{IN} = 3.4 V or GND	1.2	3.4					
		Eight bits switching at f ₁ = 5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} − 0.2 V	2.8	5.6					
			V _{IN} = 3.4 V or GND	5.1	14.6					
	V _{CC} = 5.25 V, f ₀ = 10 MHz, Outputs open, CEAB and OEAB = low, CEBA = high, f ₀ = LEAB = 10 MHz	One bit switching at f ₁ = 5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} − 0.2 V				0.7	1.4		
			V _{IN} = 3.4 V or GND				1.2	3.4		
		Eight bits switching at f ₁ = 5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} − 0.2 V				2.8	5.6		
			V _{IN} = 3.4 V or GND				5.1	14.6		
C _i				5	10		5	10	pF	
C _o				9	12		9	12	pF	

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

$\# I_C = I_{CC} + \Delta I_{CC} D_H N_T + I_{CCD}(f_0/2 + f_1 N_1)$

I_{CC} = Quiescent 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)

PARAMETER	CY54FCT543T		CY74FCT543T		CY74FCT543AT		CY74FCT543CT		UNIT
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t_w Pulse duration, $\overline{LEAB}$ or $\overline{LEBA}$	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 $\overline{LEAB}\downarrow$ or $\overline{LEBA}\downarrow$	2		2		2		2		ns

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	CY54FCT543T		CY74FCT543T		CY74FCT543AT		CY74FCT543CT		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
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}			2	10	2.5	8.5	2.5	6.5	2.5	5.3	
t _{PLH}	$\overline{\text{LEBA}}$ or $\overline{\text{LEAB}}$	A or B	2.5	14	2.5	12.5	2.5	8	2.5	7	ns
t _{PHL}			2.5	14	2.5	12.5	2.5	8	2.5	7	
t _{PZH}	$\overline{\text{OEBA}}$ or $\overline{\text{OEAB}}$	A or B	2	14	2	12	2	9	2	8	ns
t _{PZL}			2	14	2	12	2	9	2	8	
t _{PZH}	$\overline{\text{CEBA}}$ or $\overline{\text{CEAB}}$	A or B	2	14	2	12	2	9	2	8	ns
t _{PZL}			2	14	2	12	2	9	2	8	
t _{PHZ}	$\overline{\text{OEBA}}$ or $\overline{\text{OEAB}}$	A or B	2	13	2	9	2	7.5	2	6.5	ns
t _{PLZ}			2	13	2	9	2	7.5	2	6.5	
t _{PHZ}	$\overline{\text{CEBA}}$ or $\overline{\text{CEAB}}$	A or B	2	13	2	9	2	7.5	2	6.5	ns
t _{PLZ}			2	13	2	9	2	7.5	2	6.5	

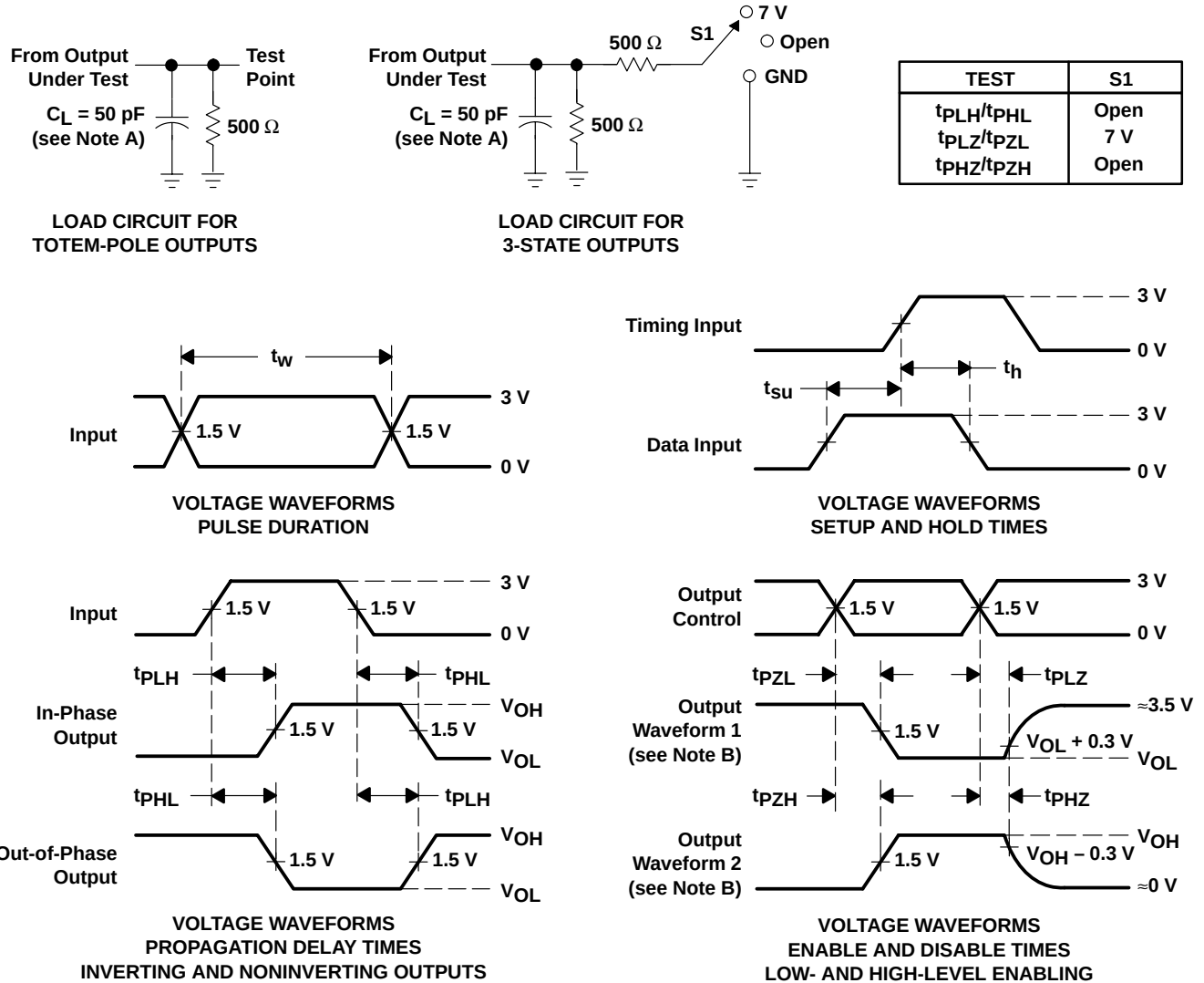


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PARAMETER MEASUREMENT INFORMATION



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
5962-9222101M3A	ACTIVE	LCCC	FK	28	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9222101M3A CY54FCT 543TLMB	Samples
5962-9222101MLA	ACTIVE	CDIP	JT	24	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9222101ML A CY54FCT543TDMB	Samples
CY54FCT543TDMB	ACTIVE	CDIP	JT	24	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9222101ML A CY54FCT543TDMB	Samples
CY54FCT543TLMB	ACTIVE	LCCC	FK	28	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9222101M3A CY54FCT 543TLMB	Samples
CY74FCT543ATQCT	ACTIVE	SSOP	DBQ	24	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543A	Samples
CY74FCT543ATSOC	ACTIVE	SOIC	DW	24	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543A	Samples
CY74FCT543TQCT	ACTIVE	SSOP	DBQ	24	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT543	Samples
CY74FCT543TSOC	ACTIVE	SOIC	DW	24	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543	Samples
CY74FCT543TSOCT	ACTIVE	SOIC	DW	24	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT543	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.

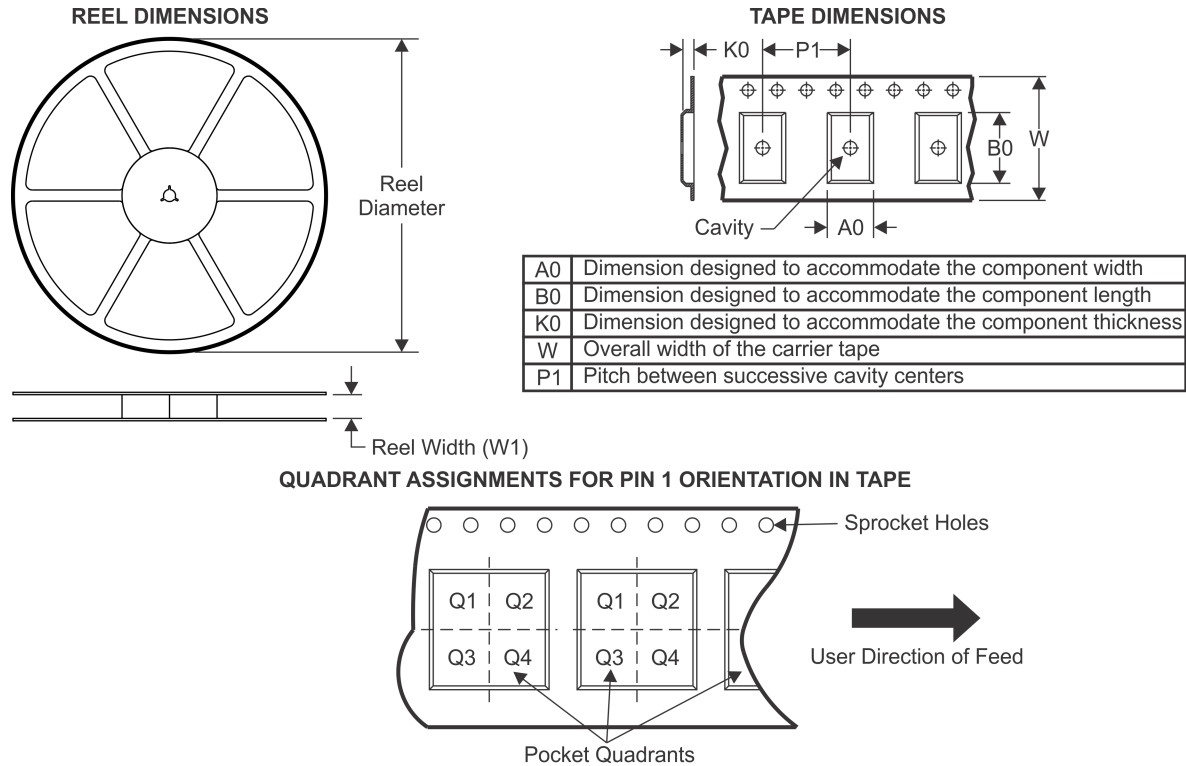
Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- ⁽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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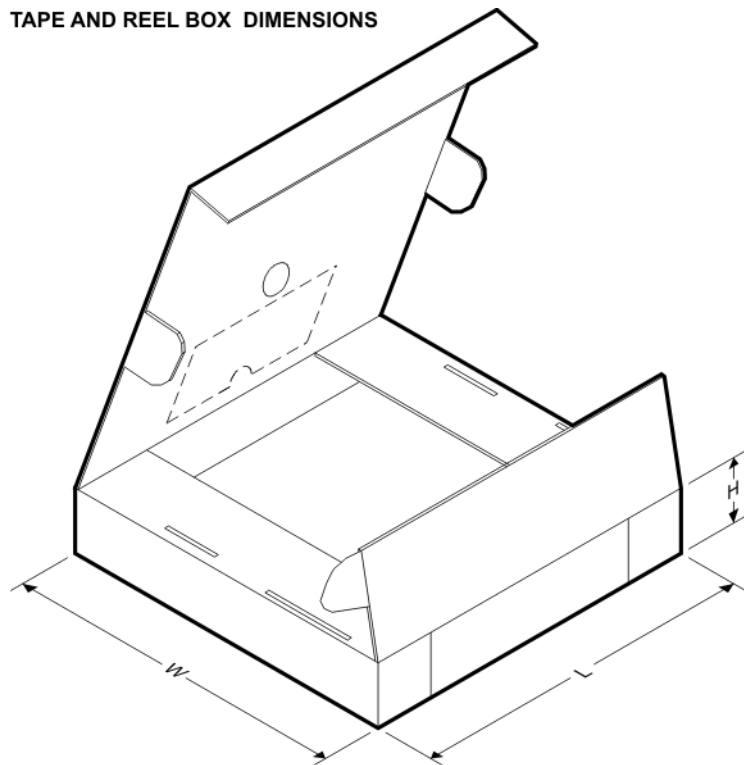
TAPE AND REEL INFORMATION



*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
CY74FCT543ATQCT	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

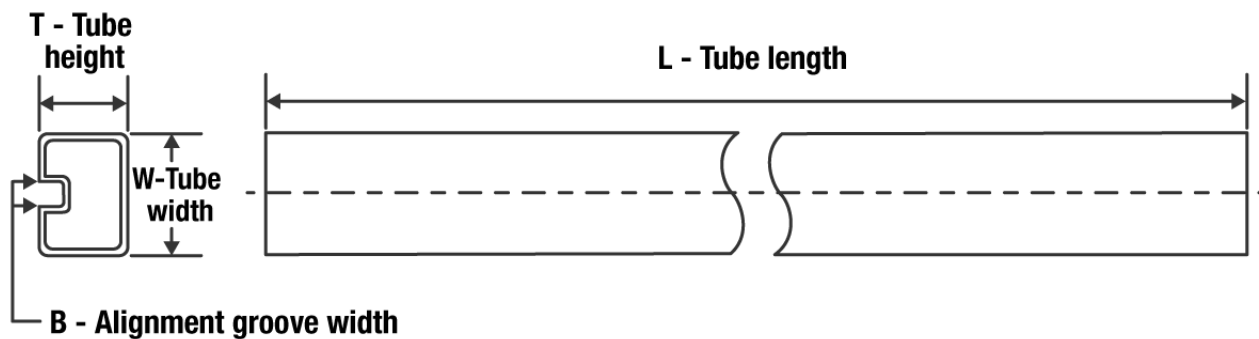
TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CY74FCT543ATQCT	SSOP	DBQ	24	2500	853.0	449.0	35.0
CY74FCT543TQCT	SSOP	DBQ	24	2500	853.0	449.0	35.0
CY74FCT543TSOCT	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 (μm)	B (mm)
CY74FCT543ATSOC	DW	SOIC	24	25	506.98	12.7	4826	6.6
CY74FCT543TSOC	DW	SOIC	24	25	506.98	12.7	4826	6.6

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