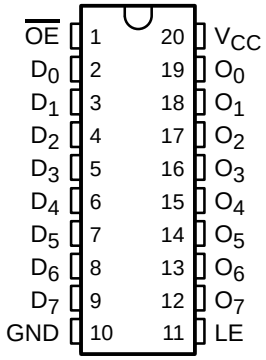
- **Function and Pinout Compatible With FCT and F Logic**
- **Reduced V_{OH} (Typically = 3.3 V) Versions of Equivalent FCT Functions**
- **Edge-Rate Control Circuitry for Significantly Improved Noise Characteristics**
- **I_{off} Supports Partial-Power-Down Mode Operation**
- **ESD Protection Exceeds JESD 22**
  - **2000-V Human-Body Model (A114-A)**
  - **200-V Machine Model (A115-A)**
  - **1000-V Charged-Device Model (C101)**
- **Matched Rise and Fall Times**
- **Fully Compatible With TTL Input and Output Logic Levels**
- **3-State Outputs**
- **CY54FCT573T**
  - **32-mA Output Sink Current**
  - **12-mA Output Source Current**
- **CY74FCT573T**
  - **64-mA Output Sink Current**
  - **32-mA Output Source Current**

CY54FCT573T . . . D PACKAGE
CY74FCT573T . . . P, Q, OR SO PACKAGE
(TOP VIEW)



description

The ’FCT573T devices consist of eight latches with 3-state outputs for bus-organized applications. When the latch-enable (LE) input is high, the flip-flops appear transparent to the data. Data that meets the required setup times are latched when LE transitions from high to low. Data appears on the bus when the output-enable ($\overline{OE}$) input is low. When $\overline{OE}$ is high, the bus output is in the high-impedance state. In this mode, data can be entered into the latches. The ’FCT573T devices are identical to the ’FCT373T devices, except for the flow-through pinout of the ’FCT573T, which simplifies board design.

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.

ORDERING INFORMATION

T_A	PACKAGE†		SPEED (ns)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	QSOP – Q	Tape and reel	4.7	CY74FCT573CTQCT	FCT573C
	SOIC – SO	Tube	4.7	CY74FCT573CTSOC	FCT573C
		Tape and reel	4.7	CY74FCT573CTSOCT	
	DIP – P	Tube	5.2	CY74FCT573ATPC	CY74FCT573ATPC
	QSOP – Q	Tape and reel	5.2	CY74FCT573ATQCT	FCT573A
	SOIC – SO	Tube	5.2	CY74FCT573ATSOC	FCT573A
		Tape and reel	5.2	CY74FCT573ATSOCT	
	QSOP – Q	Tape and reel	8	CY74FCT573TQCT	FCT573
	SOIC – SO	Tube	8	CY74FCT573TSOC	FCT573
		Tape and reel	8	CY74FCT573TSOCT	
–55°C to 125°C	CDIP – D	Tube	8.5	CY54FCT573ATLMB	

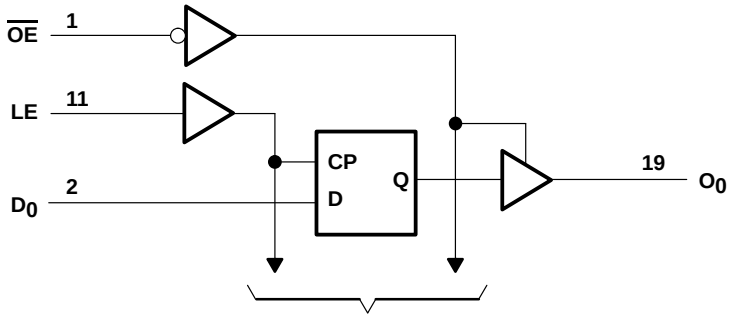
† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE

INPUTS			OUTPUT
$\overline{OE}$	LE	D	O
L	H	H	H
L	H	L	L
L	L	X	Q_0
H	X	X	Z

H = High logic level, L = Low logic level,
X = Don't care, Z = High-impedance state,
Q_n = Previous state of flip flops (Q_{n-1})

logic diagram (positive logic)



absolute maximum rating 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): P package . . . . . 69°C/W
Q package . . . . . 68°C/W
SO package . . . . . 58°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)

		CY54FCT573T			CY74FCT573T			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 2: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation.

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

PARAMETER	TEST CONDITIONS			CY54FCT573T			CY74FCT573T			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, Outputs open, One input switching at 50% duty cycle, $\overline{OE}$ = GND, V_{IN} ≤ 0.2 V or V_{IN} ≥ V_{CC} – 0.2 V				0.06	0.12				mA/ MHz
	V_{CC} = 5.25 V, Outputs open, One input switching at 50% duty cycle, $\overline{OE}$ = GND, 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			CY54FCT573T			CY74FCT573T			UNIT
				MIN	TYP†	MAX	MIN	TYP†	MAX	
I_C#	V_{CC} = 5.5 V, Outputs open, $\overline{OE}$ = GND, LE = V_{CC}	One bit switching at f_1 = 10 MHz at 50% duty cycle	$V_{IN} \le 0.2$ V or $V_{IN} \ge V_{CC} - 0.2$ V		0.7	1.4				mA
			V_{IN} = 3.4 V or GND		1	2.4				
		Eight bits switching at f_1 = 2.5 MHz at 50% duty cycle	$V_{IN} \le 0.2$ V or $V_{IN} \ge V_{CC} - 0.2$ V		1.3	2.6‖				
			V_{IN} = 3.4 V or GND		3.3	10.6‖				
	V_{CC} = 5.25 V, Outputs open, $\overline{OE}$ = GND, LE = V_{CC}	One bit switching at f_1 = 10 MHz at 50% duty cycle	$V_{IN} \le 0.2$ V or $V_{IN} \ge V_{CC} - 0.2$ V					0.7	1.4	
			V_{IN} = 3.4 V or GND					1	2.4	
		Eight bits switching at f_1 = 2.5 MHz at 50% duty cycle	$V_{IN} \le 0.2$ V or $V_{IN} \ge V_{CC} - 0.2$ V					1.3	2.6‖	
			V_{IN} = 3.4 V or GND					3.3	10.6‖	
C_i					6	10		6	10	pF
C_o					8	12		8	12	pF

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

		CY54FCT573T		CY54FCT573AT		UNIT
		MIN	MAX	MIN	MAX	
t_w	Pulse duration, LE high	6		6		ns
t_{su}	Setup time, data before LE↑	2		2		ns
t_h	Hold time, data after LE↑	1.5		1.5		ns

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

		CY74FCT573T		CY74FCT573AT		CY74FCT573CT		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
t_w	Pulse duration, LE high	6		5		5		ns
t_{su}	Setup time, data before LE↑	2		2		2		ns
t_h	Hold time, data after LE↑	1.5		1.5		1.5		ns

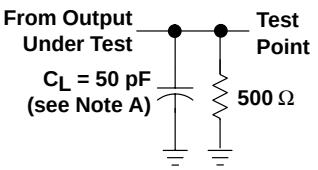
switching characteristics over operating free-air temperature range (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	CY54FCT573AT		UNIT
			MIN	MAX	
t_{PLH}	D	O	1.5	5.6	ns
t_{PHL}			1.5	5.6	
t_{PLH}	LE	O	2	9.8	ns
t_{PHL}			2	9.8	
t_{PZH}	$\overline{OE}$	O	1.5	7.5	ns
t_{PZL}			1.5	7.5	
t_{PHZ}	$\overline{OE}$	O	1.5	6.5	ns
t_{PLZ}			1.5	6.5	

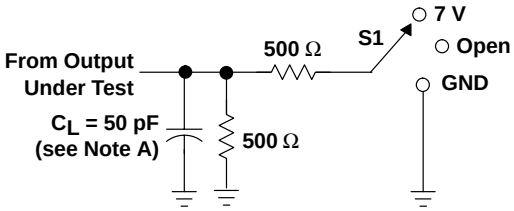
switching characteristics over operating free-air temperature range (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	CY74FCT573T		CY74FCT573AT		CY74FCT573CT		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	
t_{PLH}	D	O	1.5	8	1.5	5.2	1.5	4.7	ns
t_{PHL}			1.5	8	1.5	5.2	1.5	4.7	
t_{PLH}	LE	O	2	13	2	8.5	2	5.5	ns
t_{PHL}			2	13	2	8.5	2	5.5	
t_{PZH}	$\overline{OE}$	O	1.5	12	1.5	6.5	1.5	5.5	ns
t_{PZL}			1.5	12	1.5	6.5	1.5	5.5	
t_{PHZ}	$\overline{OE}$	O	1.5	7.5	1.5	5.5	1.5	5	ns
t_{PLZ}			1.5	7.5	1.5	5.5	1.5	5	

PARAMETER MEASUREMENT INFORMATION

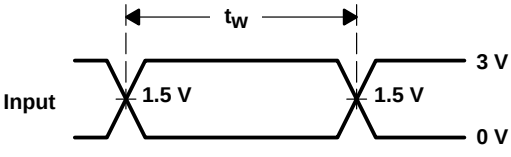


LOAD CIRCUIT FOR
TOTEM-POLE OUTPUTS

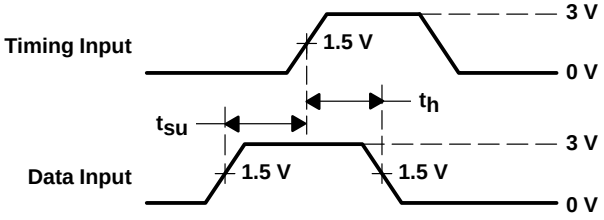


LOAD CIRCUIT FOR
3-STATE OUTPUTS

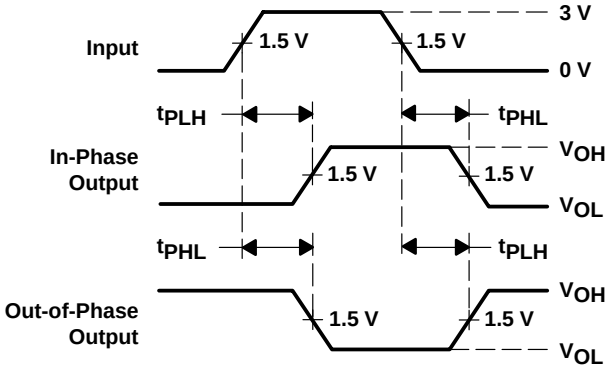
TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	7 V
t_{PHZ}/t_{PZH}	Open



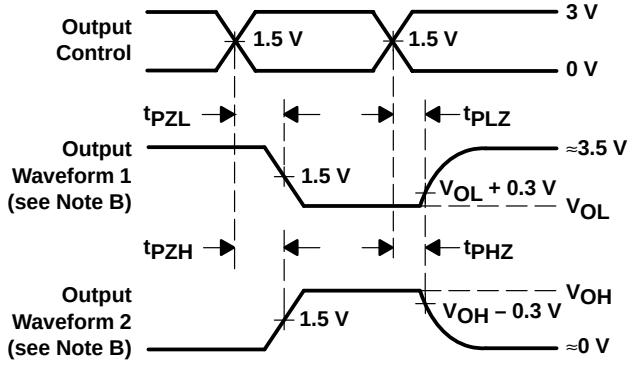
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

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 part number	Status (1)	Material type (2)	Package | Pins	Package qty | Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
5962-9223801MRA	Active	Production	CDIP (J) | 20	20 | TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9223801MRA
5962-9223802M2A	Active	Production	LCCC (FK) | 20	55 | TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9223802M2A CY54FCT 573ATLMB
CY54FCT573ATLMB	Active	Production	LCCC (FK) | 20	55 | TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9223802M2A CY54FCT 573ATLMB
CY74FCT573ATPC	Active	Production	PDIP (N) | 20	20 | TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	CY74FCT573ATPC
CY74FCT573ATPC.B	Active	Production	PDIP (N) | 20	20 | TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	CY74FCT573ATPC
CY74FCT573ATQCT	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573A
CY74FCT573ATQCT.B	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573A
CY74FCT573ATSOC	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573A
CY74FCT573ATSOC.B	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573A
CY74FCT573ATSOCT	Active	Production	SOIC (DW) | 20	2000 | LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573A
CY74FCT573ATSOCT.B	Active	Production	SOIC (DW) | 20	2000 | LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573A
CY74FCT573CTQCT	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573C
CY74FCT573CTQCT.B	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573C
CY74FCT573CTSOC	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573C
CY74FCT573CTSOC.B	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573C
CY74FCT573TQCT	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573
CY74FCT573TQCT.B	Active	Production	SSOP (DBQ) | 20	2500 | LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	FCT573
CY74FCT573TSOC	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573
CY74FCT573TSOC.B	Active	Production	SOIC (DW) | 20	25 | TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT573

(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.

(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.

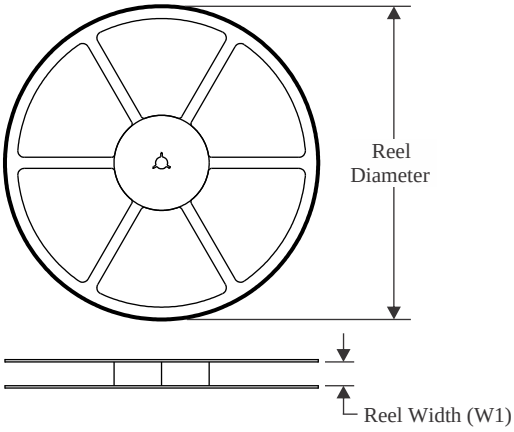
(5) **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will 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.

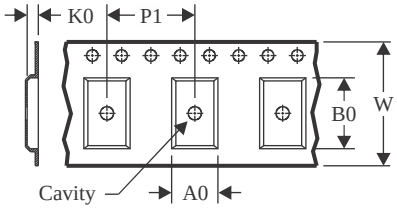
Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

TAPE AND REEL INFORMATION

REEL DIMENSIONS

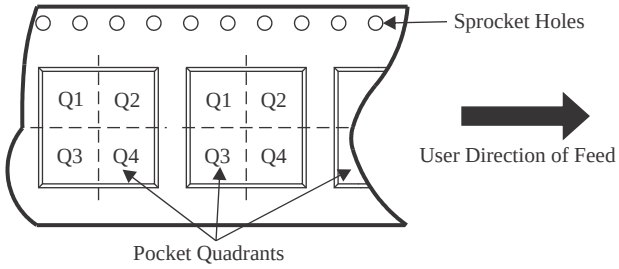


TAPE DIMENSIONS



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

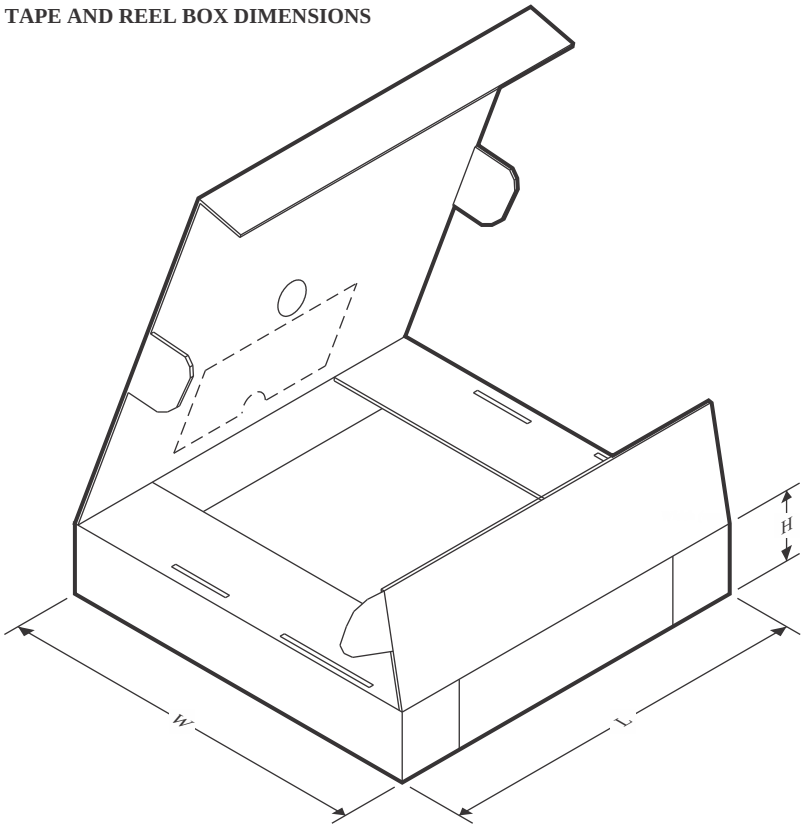
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
CY74FCT573ATQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT573ATSOCT	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
CY74FCT573CTQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CY74FCT573TQCT	SSOP	DBQ	20	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

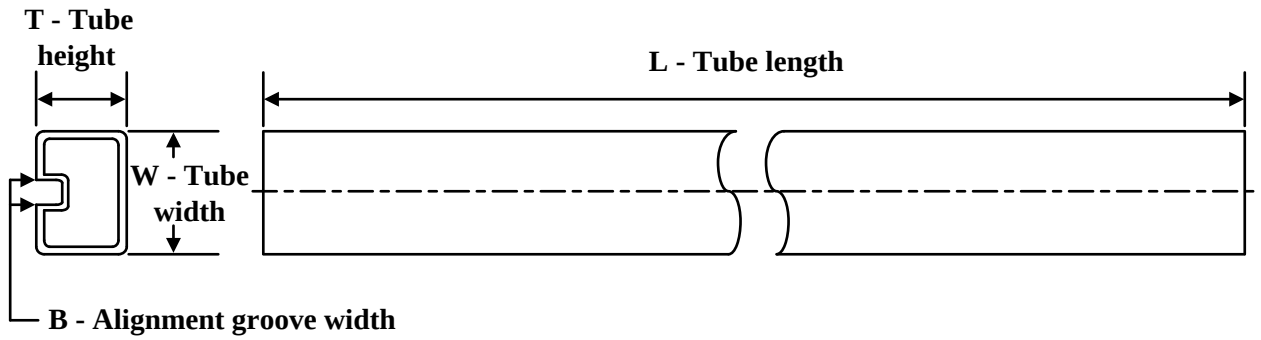
TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CY74FCT573ATQCT	SSOP	DBQ	20	2500	353.0	353.0	32.0
CY74FCT573ATSOCT	SOIC	DW	20	2000	356.0	356.0	45.0
CY74FCT573CTQCT	SSOP	DBQ	20	2500	353.0	353.0	32.0
CY74FCT573TQCT	SSOP	DBQ	20	2500	353.0	353.0	32.0

TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9223802M2A	FK	LCCC	20	55	506.98	12.06	2030	NA
CY54FCT573ATLMB	FK	LCCC	20	55	506.98	12.06	2030	NA
CY74FCT573ATPC	N	PDIP	20	20	506	13.97	11230	4.32
CY74FCT573ATPC.B	N	PDIP	20	20	506	13.97	11230	4.32
CY74FCT573ATSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT573ATSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT573CTSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT573CTSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT573TSOC	DW	SOIC	20	25	507	12.83	5080	6.6
CY74FCT573TSOC.B	DW	SOIC	20	25	507	12.83	5080	6.6

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