

CY74FCT16543T CY74FCT162543T CY74FCT162H543T

SCCS059B - August 1994 - Revised September 2001

Features

- I_{off} supports partial-power-down mode operation
- Edge-rate control circuitry for significantly improved noise characteristics
- Typical output skew < 250 ps
- ESD > 2000V
- TSSOP (19.6-mil pitch) and SSOP (25-mil pitch) packages
- Industrial temperature range of -40°C to +85°C
- V_{CC} = 5V \pm 10%

CY74FCT16543T Features:

- 64 mA sink current, 32 mA source current
- Typical V_{OLP} (ground bounce) <1.0V at V_{CC} = 5V, $T_A = 25^{\circ}C$

CY74FCT162543T Features:

- Balanced 24 mA output drivers
- Reduced system switching noise
- Typical V_{OLP} (ground bounce) <0.6V at V_{CC} = 5V, $T_{\rm A}{=}~25^{\circ}{\rm C}$

CY74FCT162H543T Features:

- · Bus hold retains last active state
- Eliminates the need for external pull-up or pull-down resistors

16-Bit Latched Transceivers

Functional Description

The CY74FCT16543T and CY74FCT162543T are 16-bit, high-speed, low power latched transceivers that are organized as two independent 8-bit D-type latched transceivers containing two sets of eight D-type latches with separate Latch Enable (LEAB, LEAB) and Output Enable (OEAB, OEAB) controls for each set to permit independent control of inputting and outputting in either direction of data flow. For data flow from A to B, for example, the A-to-B input Enable (CEAB) must be LOW in order to enter data from A or to take data from B as indicated in the truth table. With CAEB LOW, a LOW signal on the A-to-B Latch Enable (LEAB) 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 both LOW, the three-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 CEAB, LEAB, and OEAB inputs flow-through pinout and small shrink packaging and in simplifying board design.

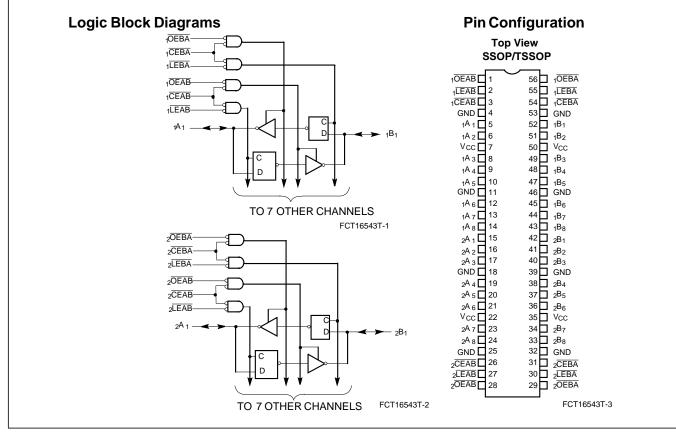
This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

The CY74FCT16543T is ideally suited for driving high-capacitance loads and low-impedance backplanes.

The CY74FCT162543T has 24-mA balanced output drivers with current limiting resistors in the outputs. This reduces the need for external terminating resistors and provides for minimal undershoot and reduced ground bounce. The CY74FCT162543T is ideal for driving transmission lines.

The CY74FCT162H543T is a 24-mA balanced output part that has "bus hold" on the data inputs. The device retains the input's last state whenever the input goes to high impedance. This eliminates the need for pull-up/down resistors and prevents floating inputs.





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)
A	A-to-B Data Inputs or B-to-A Three-State Outputs ^[9]
В	B-to-A Data Inputs or A-to-B Three-State Outputs ^[9]

Function Table^[1]

Inputs		Latch Status	Output Buffers	
CEAB	LEAB	OEAB	A to B	В
Н	Х	Х	Storing	High Z
Х	Н	Х	Storing	Х
Х	Х	Н	Х	High Z
L	L	L	Transparent	Current A Inputs
L	H	L	Storing	Previous A Inputs ^[2]

Maximum Ratings^[3, 4]

(Above which the useful life may be impaired. For user guidelines, not tested.) Storage TemperatureCom'l -55°C to +125°C Ambient Temperature with Power AppliedCom'l -55°C to +125°C

DC Input Voltage-0.5V to +7.0V DC Output Voltage-0.5V to +7.0V

DC Output	voltage	 5.5° 10 $\pm 7.0^{\circ}$
DC Output	Current	

(Maximum Sink Current/Pin)-60 to +120 mA

Power Dissipation	1.0W
Static Discharge Voltage	>2001V
(per MIL-STD-883, Method 3015)	

Operating Range

Range	Ambient Temperature	v _{cc}
Industrial	–40°C to +85°C	5V ± 10%



Electrical Characteristics Over the Operating Range

Parameter	Description	Test Conditions	Min.	Typ. ^[5]	Max.	Unit
V _{IH}	Input HIGH Voltage		2.0			V
V _{IL}	Input LOW Voltage				0.8	V
V _H	Input Hysteresis ^[6]			100		mV
V _{IK}	Input Clamp Diode Voltage	V _{CC} =Min., I _{IN} =-18 mA		-0.7	-1.2	V
I _{IH}	Input HIGH Current	V _{CC} =Max., V _I =V _{CC}			±1	μA
IIL	Input LOW Current	V _{CC} =Max., V _I =GND			±1	μA
I _{OZH}	High Impedance Output Cur- rent (Three-State Output pins)	V _{CC} =Max., V _{OUT} =2.7V			±1	μA
I _{OZL}	High Impedance Output Cur- rent (Three-State Output pins)	V _{CC} =Max., V _{OUT} =0.5V			±1	μA
I _{OS}	Short Circuit Current ^[7]	V _{CC} =Max., V _{OUT} =GND	-80	-140	-200	mA
I _O	Output Drive Current ^[7]	V _{CC} =Max., V _{OUT} =2.5V	-50		-180	mA
I _{OFF}	Power-Off Disable	$V_{CC}=0V, V_{OUT} \le 4.5V^{[8]}$			±1	μA

Notes:

A-to-B data flow shown; B-to-A flow control is the same, except using CEBA, LEBA, and OEBA.
Data prior to LEAB LOW-to-HIGH Transition H = HIGH Voltage Level. L = LOW Voltage Level. X = Don't Care. Z = High Impedance.
Operation beyond the limits set forth may impair the useful life of the device. Unless otherwise noted, these limits are over the operating free-air temperature range.
Unused inputs must always be connected to an appropriate logic voltage level, preferably either V_{CC} or ground.

5. Typical values are at V_{CC} = 5.0V, T_A = +25°C ambient.

6. 7. This parameter is specified but not tested.

This parameter is specified but not tested. 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 in order to minimize internal chip heating and more accurately reflect operational values. Otherwise prolonged shorting of a high output may raise the chip temperature well above normal and thereby cause invalid readings in other parametric tests. In any sequence of parameter tests, I_{OS} tests should be performed last. Tested at +25°C. On the 74FCT162H543T, these pins have bus hold.

8. 9.



Output Drive Characteristics for CY74FCT16543T

Parameter	Description	Test Conditions	Min.	Typ. ^[5]	Max.	Unit
V _{OH}	Output HIGH Voltage	V _{CC} =Min., I _{OH} =-3 mA	2.5	3.5		V
		V _{CC} =Min., I _{OH} =-15 mA	2.4	3.5		
		V _{CC} =Min., I _{OH} =-32 mA	2.0	3.0		
V _{OL}	Output LOW Voltage	V _{CC} =Min., I _{OL} =64 mA		0.2	0.55	V

Output Drive Characteristics for CY74FCT162543T, CY74FCT162H543T

Parameter	Description	Test Conditions	Min.	Typ. ^[5]	Max.	Unit
I _{ODL}	Output LOW Current ^[7]	V_{CC} =5V, V_{IN} =V _{IH} or V_{IL} , V_{OUT} =1.5V	60	115	150	mA
I _{ODH}	Output HIGH Current ^[7]	V_{CC} =5V, V_{IN} =V _{IH} or V_{IL} , V_{OUT} =1.5V	-60	–115	-150	mA
V _{OH}	Output HIGH Voltage	V _{CC} =Min., I _{OH} =-24 mA	2.4	3.3		V
V _{OL}	Output LOW Voltage	V _{CC} =Min., I _{OL} =24 mA		0.3	0.55	V

Capacitance^[6] (T_A = +25°C, f = 1.0 MHz)

Parameter	Description	Test Conditions	Typ. ^[5]	Max.	Unit
C _{IN}	Input Capacitance	$V_{IN} = 0V$	4.5	6.0	pF
C _{OUT}	Output Capacitance	V _{OUT} = 0V	5.5	8.0	pF

Power Supply Characteristics

Parameter	Description	Test Condition	າຣ	Typ. ^[5]	Max.	Unit
I _{CC}	Quiescent Power Supply Current	V _{CC} =Max.	$V_{IN} \leq 0.2V,$ $V_{IN} \geq V_{CC} = 0.2V$	5	500	μΑ
ΔI_{CC}	Quiescent Power Supply Current (TTL inputs HIGH)	V _{CC} =Max.	V _{IN} =3.4V ^[10]	0.5	1.5	mA
I _{CCD}	Dynamic Power Supply Current ^[11]	V _{CC} =Max., One Input Toggling, 50% Duty Cycle, Outputs Open, OE=GND	V _{IN} =V _{CC} or V _{IN} =GND	60	100	μA/MHz
I _C	Total Power Supply Current ^[12]	V _{CC} =Max., f ₁ =10 MHz, 50% Duty Cycle, Outputs	V _{IN} =V _{CC} or V _{IN} =GND	0.6	1.5	mA
		Open, One Bit Toggling, OE=GND	V _{IN} =3.4V or V _{IN} =GND	0.9	2.3	mA
			V _{IN} =V _{CC} or V _{IN} =GND	2.4	4.5 ^[13]	mA
		Open, Sixteen Bits Toggling, OE=GND	V _{IN} =3.4V or V _{IN} =GND	6.4	16.5 ^[13]	mA

Notes:

Notes: 10. Per TTL driven input (V_{IN} =3.4V); all other inputs at V_{CC} or GND. 11. This parameter is not directly testable, but is derived for use in Total Power Supply calculations. 12. $I_C = I_{QUIESCENT} + I_{INPUTS} + I_{DYNAMIC}$ $I_C = I_{CC} + \Delta I_{CC} D_H N_T + I_{CCD} (f_0/2 + f_1 N_1)$ $I_{CC} = Quiescent Current with CMOS input levels$ $\Delta I_{CC} = Power Supply Current for a TTL HIGH input$ $<math>(V_{IN}$ =3.4V) $D_H = Duty Cycle for TTL inputs HIGH$ $N_T = Number of TTL inputs at <math>D_H$ $I_{CCD} = Dynamic Current caused by an input transition pair$ <math>(HLH or LHL) $f_0 = Clock frequency for registered devices, otherwise zero$

- f₀ = Clock frequency for registered devices, otherwise zero
- f₁ N₁ = Input signal frequency
- = Number of inputs changing at f₁
- All currents are in milliamps and all frequencies are in megahertz.
- 13. Values for these conditions are examples of the I_{CC} formula. These limits are specified but not tested.



Switching Characteristics Over the Operating Range^[14]

			CY74FCT16543T CY74FCT162543T		CY74FCT16543AT CY74FCT162543AT		Fig
Parameter	Description	Min.	Max.	Min.	Max.	Unit	Fig. No. ^[15]
t _{PLH} t _{PHL}	Propagation Delay Transparent Mode A to B or B to A	1.5	8.5	1.5	6.5	ns	1, 3
t _{PLH} t _{PHL}	Propagation Delay LEBA to A, LEAB to B	1.5	12.5	1.5	8.0	ns	1, 5
t _{PZH} t _{PZL}	Output Enable Time OEBA or OEAB to A or B CEBA or CEAB to A or B	1.5	12.0	1.5	9.0	ns	1, 7, 8
t _{PHZ} t _{PLZ}	Output Disable Time OEBA or OEAB to A or B CEBA or CEAB to A or B	1.5	9.0	1.5	7.5	ns	1, 7, 8
t _{SU}	Set-up Time HIGH or LOW A or B to LEAB or LEBA	2.0	_	2.0	-	ns	4
t _H	Hold Time HIGH or LOW A or B to LEAB or LEBA	2.0	-	2.0	-	ns	4
t _W	LEBA or LEAB Pulse Width LOW	4.0	—	4.0	_	ns	5
t _{SK(O)}	Output Skew ^[16]	_	0.5	—	0.5	ns	—

		CY74FCT16543CT CY74FCT162543CT CY74FCT162H543CT			Fig
Parameter	Description	Min.	Max.	Unit	Fig. No. ^[15]
t _{PLH} t _{PHL}	Propagation Delay Transparent Mode A to B or B to A	1.5	5.1	ns	1, 3
t _{PLH} t _{PHL}	Propagation Delay LEBA to A, LEAB to B	1.5	5.6	ns	1, 5
t _{PZH} t _{PZL}	Output Enable Time OEBA or OEAB to A or B CEBA or CEAB to A or B	1.5	7.8	ns	1, 7, 8
t _{PHZ} t _{PLZ}	Output Disable Time OEBA or OEAB to A or B CEBA or CEAB to A or B	1.5	6.5	ns	1, 7, 8
t _{SU}	Set-up Time HIGH or LOW A or B to LEAB or LEBA	2.0	—	ns	4
t _H	Hold Time HIGH or LOW A or B to LEAB or LEBA	2.0	—	ns	4
t _W	LEBA or LEAB Pulse Width LOW	4.0	—	ns	5
t _{SK(O)}	Output Skew ^[16]		0.5	ns	

Notes:

Minimum limits are specified but not tested on Propagation Delays.
See "Parameter Measurement Information" in the General Information section.
Skew between any two outputs of the same package switching in the same directional. This parameter is ensured by design.



Ordering Information CY74FCT16543

Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
5.1	CY74FCT16543CTPVC/PVCT	O56	56-Lead (300-Mil) SSOP	Industrial
6.5	CY74FCT16543ATPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
8.5	CY74FCT16543TPVC/PVCT	O56	56-Lead (300-Mil) SSOP	Industrial

Ordering Information CY74FCT162543

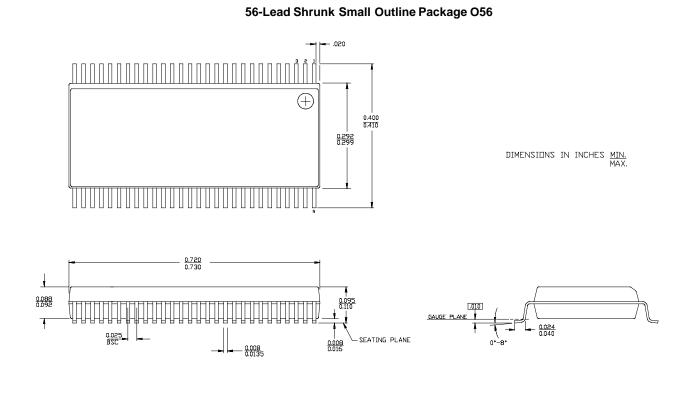
Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
5.1	74FCT162543CTPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
	CY74FCT162543CTPVC	O56	56-Lead (300-Mil) SSOP	
	74FCT162543CTPVCT	O56	56-Lead (300-Mil) SSOP	
6.5	74FCT162543ATPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
8.5	CY74FCT162543TPVC/PVCT	O56	56-Lead (300-Mil) SSOP	Industrial

Ordering Information CY74FCT162H543T

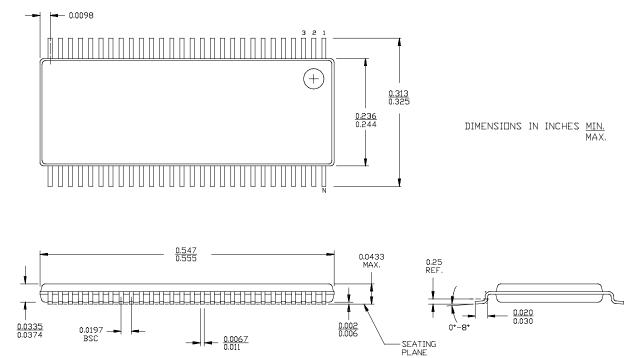
Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
5.1	74FCT162H543CTPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial



Package Diagrams



56-Lead Thin Shrunk Small Outline Package Z56



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27-Sep-2007

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
74FCT162543ATPACT	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162543CTPACT	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162543CTPVCG4	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162543CTPVCT	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162543ETPACT	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
74FCT162543ETPVCT	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
74FCT162543TPVCG4	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162543TPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT162H543CTPACT	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543ATPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543ATPACTG4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543CTPVCG4	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543CTPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543TPVCG4	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74FCT16543TPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT162543CTPVC	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT162543ETPAC	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
CY74FCT162543ETPVC	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
CY74FCT162543TPVC	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT162543TPVCT	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16543ATPACT	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16543CTPVC	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16543CTPVCT	ACTIVE	SSOP	DL	56	1000	,	CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16543ETPAC	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
CY74FCT16543ETPACT	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
CY74FCT16543ETPVC	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
CY74FCT16543ETPVCT	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
CY74FCT16543TPVC	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
CY74FCT16543TPVCT	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162543ATPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162543ATPACTG4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162543CTPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162543CTPACTG4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162543CTPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H543CTPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H543CTPACTG4	ACTIVE	TSSOP	DGG	56	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.

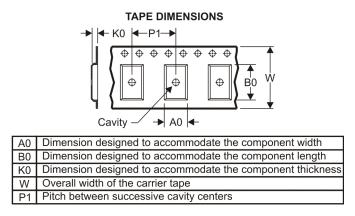
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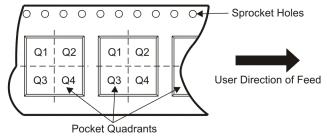
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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

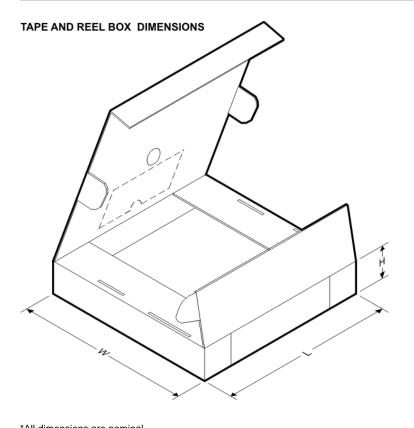


All dimensions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
74FCT162543ATPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
74FCT162543CTPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
74FCT162543CTPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
74FCT162H543CTPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
CY74FCT162543TPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
CY74FCT16543ATPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
CY74FCT16543CTPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
CY74FCT16543TPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1



PACKAGE MATERIALS INFORMATION

11-Mar-2008



*All dimensions are nominal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
74FCT162543ATPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
74FCT162543CTPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
74FCT162543CTPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
74FCT162H543CTPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
CY74FCT162543TPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
CY74FCT16543ATPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
CY74FCT16543CTPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
CY74FCT16543TPVCT	SSOP	DL	56	1000	346.0	346.0	49.0

MECHANICAL DATA

MTSS003D - JANUARY 1995 - REVISED JANUARY 1998

DGG (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

48 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-153



MECHANICAL DATA

MSSO001C - JANUARY 1995 - REVISED DECEMBER 2001

PLASTIC SMALL-OUTLINE PACKAGE

48 PINS SHOWN

DL (R-PDSO-G**)



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).

D. Falls within JEDEC MO-118



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