

CY74FCT16501T CY74FCT162501T CY74FCT162H501T

SCCS057B - 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%

CY74FCT16501T Features:

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

CY74FCT162501T Features:

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

CY74FCT162H501T Features:

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

18-Bit Registered Transceivers

Functional Description

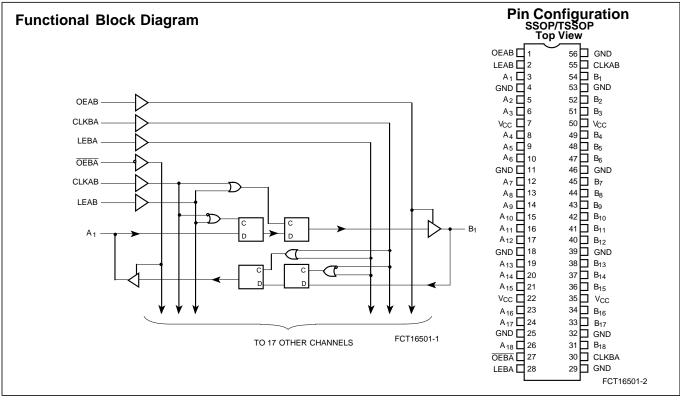
These 18-bit universal bus transceivers can be operated in transparent, latched or clock modes by combining D-type latches and D-type flip-flops. Data flow in each direction is controlled by output enable (OEAB and OEBA), latch enable (LEAB and LEBA), and clock inputs (CLKAB and CLKBA). For A-to-B data flow, the device operates in transparent mode when LEAB is HIGH. When LEAB is LOW, the A data is latched if CLKAB is held at a HIGH or LOW logic level. If LEAB is LOW, the A bus data is stored in the latch/flip-flop on the LOW-to-HIGH transition of CLKAB. OEAB performs the output enable function on the B port. Data flow from B-to-A is similar to that of A-to-B and is controlled by OEBA, LEBA, and CLKBA.

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 CY74FCT16501T is ideally suited for driving high-capacitance loads and low-impedance backplanes.

THE CY74FCT162501T 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 CY74FCT162501T is ideal for driving transmission lines.

The CY74FCT162H501T 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
OEBA	B-to-A Output Enable Input (Active LOW)
LEAB	A-to-B Latch Enable Input
LEBA	B-to-A Latch Enable Input
CLKAB	A-to-B Clock Input
CLKBA	B-to-A Clock Input
A	A-to-B Data Inputs or B-to-A Three-State Outputs ^[1]
В	B-to-A Data Inputs or A-to-B Three-State Outputs ^[1]

Function Table^[2, 3]

	Inp	uts		Outputs
OEAB	LEAB	LEAB CLKAB A		В
L	Х	Х	Х	Z
Н	Н	Х	L	L
Н	Н	Х	Н	Н
Н	L	г	L	L
Н	L	г	Н	Н
Н	L	L	Х	B ^[4]
Н	L	Н	Х	B ^[5]

Notes:

- ss: On the 74FCT162H501T these pins have bus hold. A-to-B data flow is shown. B-to-A data flow is similar but uses OEBA, LEBA, and CLKBA. H = HIGH Voltage Level L = LOW Voltage Level X = Don't Care Z = High-impedance ___ = LOW-to-HIGH Transition Output level before the indicated steady-state input conditions were established. Output level before the indicated steady-state input conditions were established. Output level before the indicated steady-state input conditions were established. Output level before the indicated steady-state input conditions were established, provided that CLKAB was HIGH before LEAB went LOW. 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. 4. 5. 6. 7.

Maximum Ratings^[6, 7]

(Above which the useful life may be impaired. For user guidelines, not tested.)

Storage Temperature55°C to +125°C
Ambient Temperature with Power Applied55°C to +125°C
DC Input Voltage0.5V to +7.0V
DC Output Voltage0.5V to +7.0V
DC Output Current (Maximum Sink Current/Pin)60 to +120 mA
Power Dissipation 1.0W
Static Discharge Voltage

Operating Range

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

^{1.} 2. 3.



Electrical Characteristics Over the Operating Range

Parameter	Description		Test Cond	itions	Min.	Typ. ^[8]	Max.	Unit
V _{IH}	Input HIGH Voltage				2.0			V
V _{IL}	Input LOW Voltage						0.8	V
V _H	Input Hysteresis ^[9]					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	Standard	V _{CC} =Max., V _I =	V _{CC}			±1	μA
		Bus Hold]				±100	
IIL	Input LOW Current	Standard	V _{CC} =Max., V _I =0	GND			±1	μA
		Bus Hold]				±100	μA
I _{BBH}	Bus Hold Sustain Current on Bus Ho	old Input ^[10]	V _{CC} =Min., V _I =2.0V		-50			μA
I _{BBL}				V _I =0.8V	+50			μΑ
I _{BHHO} I _{BHLO}	Bus Hold Overdrive Current on Bus put ^[10]	Hold In-	V _{CC} =Max., V _I =1.5V				TBD	mA
I _{OZH}	High Impedance Output Current (Three-State Output pins)		V _{CC} =Max., V _{OL}	_{JT} =2.7V			±1	μA
I _{OZL}	High Impedance Output Current (Three-State Output pins)		V _{CC} =Max., V _{OL}	_{JT} =0.5V			±1	μA
I _{OS}	Short Circuit Current ^[11]		V _{CC} =Max., V _{OL}	_{IT} =GND	-80	-140	-200	mA
I _O	Output Drive Current ^[11]		V _{CC} =Max., V _{OL}	_{JT} =2.5V	-50		-180	mA
I _{OFF}	Power-Off Disable		V _{CC} =0V, V _{OUT} ≤	4.5V ^[12]			±1	μΑ

Output Drive Characteristics for CY74FCT16501T

Parameter	Description	Test Conditions	Min.	Typ. ^[8]	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 CY74FCT162501T, CY74FCT162H501T

Parameter	Description	Test Conditions	Min.	Typ. ^[8]	Max.	Unit
I _{ODL}	Output LOW Current ^[11]	V_{CC} =5V, V_{IN} =V _{IH} or V_{IL} , V_{OUT} =1.5V	60	115	150	mA
I _{ODH}	Output HIGH Current ^[11]	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

Notes:

Notes:
Typical values are at V_{CC}= 5.0V, T_A= +25°C ambient.
This parameter is specified but not tested.
Pins with bus hold are described in Pin Description.
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.



Capacitance^[9] (T_A = +25°C, f = 1.0 MHz)

Parameter	Description	Test Conditions	Typ. ^[8]	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

Sym.	Parameter	Test Conditions	[13]	Min.	Typ. ^[8]	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	μA
ΔI_{CC}	Quiescent Power Supply Current TTL inputs HIGH	V _{CC} = Max., V _{IN =} 3.4V ^[14]		—	0.5	1.5	mA
I _{CCD}	Dynamic Power Supply Current ^[15]	V _{CC} =Max., Outputs Open OEAB=OEBA=V _{CC} or GND One Input Toggling, 50% Duty Cycle	V _{IN} =V _{CC} or V _{IN} =GND		75	120	μΑ/ MHz
Ι _C	Total Power Supply Current ^[16]	V _{CC} =Max., Outputs Open f ₀ =10MHz (CLKAB)	V _{IN} =V _{CC} or V _{IN} =GND	_	0.8	1.7	mA
		50% Duty Cycle OEAB=OEBA=V _{CC} LEAB = GND, One Bit Toggling $f_1 = 5MHz$, 50% Duty Cycle	V _{IN} =3.4V or V _{IN} =GND	_	1.3	3.2	
		V _{CC} =Max., Outputs Open f ₀ = 10MHz (CLKAB)	V _{IN} =V _{CC} or V _{IN} =GND	_	3.8	6.5 ^[17]	
		50% Duty Cycle OEAB=OEBA=V _{CC} LEAB=GND Eighteen Bits Toggling f ₁ =2.5MHz, 50% Duty Cycle	V _{IN} =3.4V or V _{IN} =GND	_	8.5	20.8 ^[17]	

Notes:

13. For conditions shown as Max. or Min., use appropriate value specified under Electrical Characteristics for the applicable device type. 14. Per TTL driven input (V_{IN} =3.4V); all other inputs at V_{CC} or GND.

This parameter is not directly testable, but is derived for use in Total Power Supply. $\begin{aligned} I_{C} &= I_{QUIESCENT} + I_{NPUTS} + I_{DYNAMIC} \\ I_{C} &= I_{CC} + \Delta I_{CC} D_{H} N_{T} + I_{CCD} (f_{0}/2 + f_{1}N_{1}) \\ I_{CC} &= Quiescent Current with CMOS input levels \\ \end{aligned}$ 15. 16.

- $\begin{array}{rcl} Al_{CC} &= & \text{Rescale in Content with Content of TTL HIGH input (V_{IN}=3.4V)} \\ Al_{CC} &= & \text{Power Supply Current for a TTL HIGH input (V_{IN}=3.4V)} \\ D_{H} &= & \text{Duty Cycle for TTL inputs HIGH} \\ N_{T} &= & \text{Number of TTL inputs at } D_{H} \end{array}$

- $I_{CCD} = Dynamic Current caused by an input transition pair (HLH or LHL)$ $f_0 = Clock frequency for registered devices, otherwise zero$ $f_1 = Input signal frequency$

Ń₁ = Number of inputs changing at f₁

All currents are in milliamps and all frequencies are in megahertz.

17. Values for these conditions are examples of the I_{CC} formula. These limits are specified but not tested.



Switching Characteristics Over the Operating Range^[18]

			CY74FCT CY74FCT		CY74FCT1 CY74FCT1	62501CT 62H501CT		
Parameter	Description		Min.	Max.	Min.	Max.	Unit	Fig. No. ^[19]
f _{MAX}	CLKAB or CLKBA frequency ^[20]		_	150	_	150	MHz	-
t _{PLH} t _{PHL}	Propagation Delay A to B or B to A		1.5	5.1	1.5	4.6	ns	1,3
t _{PLH} t _{PHL}	Propagation Delay LEBA to A, LEAB to B		1.5	5.6	1.5	5.3	ns	1,5
t _{PLH} t _{PHL}	Propagation Delay CLKBA to A, CLKAB to B		1.5	5.6	1.5	5.3	ns	1,5
t _{PZH} t _{PZL}	Output Enable Time OEBA to A, OEAB to B		1.5	6.0	1.5	5.6	ns	1,7,8
t _{PHZ} t _{PLZ}	Output Disable Time OEBA to A, OEAB to B		1.5	5.6	1.5	5.2	ns	1,7,8
t _{SU}	Set-Up Time, HIGH or LOW A to CLKAB, B to CLKBA		3.0	-	3.0	_	ns	4
t _H	Hold Time HIGH or LOW A to CLKAB, B to CLKBA		0	_	0	-	ns	4
t _{SU}	Set-Up Time, HIGH or LOW	Clock LOW	3.0	_	3.0	_	ns	4
	A to LEAB, B to LEBA	Clock HIGH	1.5	_	1.5	-	ns	4
t _H	Hold Time, HIGH or LOW, A to LEAB, B to LEBA		1.5	_	1.5	_	ns	4
t _W	LEAB or LEBA Pulse Width HIGH ^[20]		3.0		3.0	_	ns	5
t _W	CLKAB or CLKBA Pulse Width HIGH or LOW ^[20]		3.0	—	3.0	_	ns	5
t _{SK(O)}	Output Skew ^[21]		_	0.5	_	0.5	ns	—

Notes:

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



Ordering Information CY74FCT16501T

Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
5.1	CY74FCT16501ATPVC/PVCT	O56	56-Lead (300-Mil) SSOP	Industrial

Ordering Information CY74FCT162501T

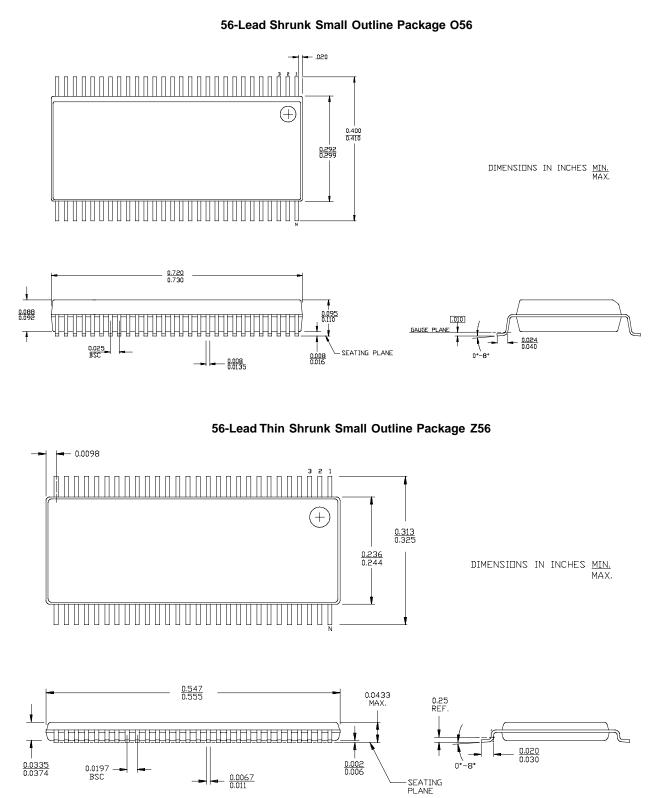
Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
4.6	74FCT162501CTPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
	CY74FCT162501CTPVC	O56	56-Lead (300-Mil) SSOP	
	74FCT162501CTPVCT	O56	56-Lead (300-Mil) SSOP	1
5.1	74FCT162501ATPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
	CY74FCT162501ATPVC	O56	56-Lead (300-Mil) SSOP	
	74FCT162501ATPVCT	O56	56-Lead (300-Mil) SSOP	1

Ordering Information CY74FCT162H501T

Speed (ns)	Ordering Code	Package Name	Package Type	Operating Range
4.6	74FCT162H501CTPACT	Z56	56-Lead (240-Mil) TSSOP	Industrial
	74FCT162H501CTPVC/PVCT	O56	56-Lead (300-Mil) SSOP	



Package Diagrams



27-Sep-2007

PACKAGING INFORMATION

TEXAS INSTRUMENTS www.ti.com

no Sb/Bit) 74FCT162501ATPVCG4 ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501ATPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPACT ACTIVE TSSOP DG 55 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCG4 ACTIVE SSOP DL 56 200 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCT ACTIVE SSOP DL 56 200 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501CTPVCT ACTIVE SSOP </th <th>Orderable Device</th> <th>Status ⁽¹⁾</th> <th>Package Type</th> <th>Package Drawing</th> <th>Pins</th> <th>Package Qty</th> <th>e Eco Plan ⁽²⁾</th> <th>Lead/Ball Finish</th> <th>MSL Peak Temp ⁽³⁾</th>	Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
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no Sb/Br) 74FCT162H501CTPVC ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br) 74FCT162H501CTPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & no Sb/Br) CU NIPDAU Level-1-260C-UNLIM no Sb/Br) 74FCT162H501ETPVCT ACTIVE SSOP DGG 56 TBD Call TI Call TI 74FCT162H501ETPACT OBSOLETE TSSOP DGG 56 TBD Call TI Call TI 74FCT162H501ETPVC OBSOLETE SSOP DL 56 TBD Call TI Call TI 74FCT162H501ETPVC OBSOLETE SSOP DL 56 TBD Call TI Call TI 74FCT162H501ETPVC OBSOLETE SSOP DL 56 20 Green (RoHS & no Sb/Br) CU NIPDAU Level-1-260C-UNLIM 74FCT162501ATPVCG4 ACTIVE SSOP DL 56 20 Green (RoHS & no Sb/Br) CU NIPDAU Level-1-260C-UNLIM CY74FCT162501ATPVC ACTIVE SSOP <td>74FCT162501ETPVCT</td> <td>OBSOLETE</td> <td>SSOP</td> <td>DL</td> <td>56</td> <td></td> <td>TBD</td> <td>Call TI</td> <td>Call TI</td>	74FCT162501ETPVCT	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
ros Sb/Br) 74FCT162H501CTPVCT ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sh/Br) 74FCT162H501ETPAC OBSOLETE TSSOP DGG 56 TBD Call TI Call TI Call TI 74FCT162H501ETPAC OBSOLETE TSSOP DGG 56 TBD Call TI Call TI Call TI 74FCT162H501ETPVCT OBSOLETE SSOP DL 56 TBD Call TI Call TI Call TI 74FCT162H501ETPVCT OBSOLETE SSOP DL 56 TBD Call TI Call TI Call TI 74FCT162H501TPVCT OBSOLETE SSOP DL 56 000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sh/Br) 74FCT162501ATPVCT64 ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sh/Br) CY74FCT162501ATPVC ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sh/Br) CY74FCT162501ATPVC ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPD	74FCT162H501CTPACT	ACTIVE	TSSOP	DGG	56	2000		CU NIPDAU	Level-1-260C-UNLIM
no Sb/Br) 74FCT162H501ETPAC OBSOLETE TSSOP DGG 56 TBD Call TI Call TI 74FCT162H501ETPACT OBSOLETE TSSOP DL 56 TBD Call TI Call TI Call TI 74FCT162H501ETPVC OBSOLETE SSOP DL 56 TBD Call TI Call TI Call TI 74FCT162H501ETPVCT OBSOLETE SSOP DL 56 TBD Call TI Call TI Call TI 74FCT16501ATPVCTG4 ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT16501ATPVCTG4 ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 74FCT162501ATPVC ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 704FCT162501CTPVC ACTIVE SSOP DL 56 20 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM 704FCT162501ETPAC OBSOLETE TSSOP DL 56 TBD Call TI Call TI CY74FCT162501ATPVC	74FCT162H501CTPVC	ACTIVE	SSOP	DL	56	20		CU NIPDAU	Level-1-260C-UNLIM
T4FCT162H501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TI74FCT162H501ETPVCOBSOLETESSOPDL56TBDCall TICall TI74FCT162H501ETPVCTOBSOLETESSOPDL56TBDCall TICall TI74FCT162H501ETPVCTOBSOLETESSOPDL5620Green (RoHS & no Sb/Bt)CU NIPDAULevel-1-260C-UNLIM no Sb/Bt)74FCT16501ATPVCTG4ACTIVESSOPDL5620Green (RoHS & no Sb/Bt)CU NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Bt)CU NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & no Sb/Bt)CU NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Bt)Cu NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Bt)Cu NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Bt)Cu NIPDAULevel-1-260C-UNLIM no Sb/Bt)CY74FCT16501ATPVCTACTIVESSOPDL56TBDCall TICall TICY74FCT16501ATPVCT <td< td=""><td>74FCT162H501CTPVCT</td><td>ACTIVE</td><td>SSOP</td><td>DL</td><td>56</td><td>1000</td><td></td><td>CU NIPDAU</td><td>Level-1-260C-UNLIM</td></td<>	74FCT162H501CTPVCT	ACTIVE	SSOP	DL	56	1000		CU NIPDAU	Level-1-260C-UNLIM
74FCT162H501ETPVCOBSOLETESSOPDL56TBDCall TICall TI74FCT162H501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICall TI74FCT16501ATPVCG4ACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)74FCT16501ATPVCTG4ACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL56TBDCall TICall TICY74FCT16501ATPVCTACTIVESSOPDL56TBDCall TICall TICY74FCT16501ATPVCTACTIVESSOPDL56TBDCall TICall TICY74FCT16501ATPVCTACTIVE </td <td>74FCT162H501ETPAC</td> <td>OBSOLETE</td> <td>TSSOP</td> <td>DGG</td> <td>56</td> <td></td> <td>TBD</td> <td>Call TI</td> <td>Call TI</td>	74FCT162H501ETPAC	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
74FCT162H501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICall TI74FCT16501ATPVCG4ACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)74FCT16501ATPVCG4ACTIVESSOPDL561000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPVCACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPVCOBSOLETETSSOPDL567BDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL567BDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL561000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG <t< td=""><td>74FCT162H501ETPACT</td><td>OBSOLETE</td><td>TSSOP</td><td>DGG</td><td>56</td><td></td><td>TBD</td><td>Call TI</td><td>Call TI</td></t<>	74FCT162H501ETPACT	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
74FCT16501ATPVCG4ACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)74FCT16501ATPVCTG4ACTIVESSOPDL561000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & cu no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & cu no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDL5620Green (RoHS & cu no Sb/Br)Cu NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPVCOBSOLETETSSOPDL56TBDCall TICall TICY74FCT162501ATPVCACTIVESSOPDL560Green (RoHS & cu no Sb/Br)Cu NIPDAULevel-1-260C-UNLIM 	74FCT162H501ETPVC	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
74FCT16501ATPVCTG4ACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETE<	74FCT162H501ETPVCT	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
No Sb/Br)CY74FCT162501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICall TICY74FCT162501ETPVCOBSOLETESSOPDL56TBDCall TICall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)Level-1-260C-UNLIM no Sb/Br)CV74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACT <t< td=""><td>74FCT16501ATPVCG4</td><td>ACTIVE</td><td>SSOP</td><td>DL</td><td>56</td><td>20</td><td></td><td>CU NIPDAU</td><td>Level-1-260C-UNLIM</td></t<>	74FCT16501ATPVCG4	ACTIVE	SSOP	DL	56	20		CU NIPDAU	Level-1-260C-UNLIM
NO Šb/Br)CY74FCT162501CTPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM no Sb/Br)CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT162501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAU no Sb/Br)Level-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TI Call TICY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TI Call TICY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TI Call TICY74FCT16501ETPACOBSOLETESSOPDL56TBDCall TICall TI Call TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TI Call TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TI Call TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TI Call TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TI <tr<tr>CY74FCT16501ETPVCTOBSOLETE<t< td=""><td>74FCT16501ATPVCTG4</td><td>ACTIVE</td><td>SSOP</td><td>DL</td><td>56</td><td>1000</td><td></td><td>CU NIPDAU</td><td>Level-1-260C-UNLIM</td></t<></tr<tr>	74FCT16501ATPVCTG4	ACTIVE	SSOP	DL	56	1000		CU NIPDAU	Level-1-260C-UNLIM
CY74FCT162501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT162501ETPVCOBSOLETESSOPDL56TBDCall TICall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT162501ATPVC	ACTIVE	SSOP	DL	56	20		CU NIPDAU	Level-1-260C-UNLIM
CY74FCT162501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDL561000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TIFCT162501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT162501CTPVC	ACTIVE	SSOP	DL	56	20		CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16501ATPVCACTIVESSOPDL5620Green (RoHS & cu NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & cu NIPDAULevel-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TIFCT162501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT162501ETPAC	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
CY74FCT16501ATPVCTACTIVESSOPDL561000Green (RoHS & CU NIPDAU no Sb/Br)Cu NIPDAU Level-1-260C-UNLIM Level-1-260C-UNLIM no Sb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TI Call TICall TI Call TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TI Call TICall TI Call TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TI Call TICall TI Call TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TI Call TICall TI Call TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TI Call TICall TI Call TIFCT162501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & ro Sb/Br)CU NIPDAU Level-1-260C-UNLIM no Sb/Br)Level-1-260C-UNLIM no Sb/Br)	CY74FCT162501ETPVC	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
no Šb/Br)CY74FCT16501ETPACOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT16501ATPVC	ACTIVE	SSOP	DL	56	20	(CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16501ETPACTOBSOLETETSSOPDGG56TBDCall TICall TICY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TIFCT162501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT16501ATPVCT	ACTIVE	SSOP	DL	56	1000		CU NIPDAU	Level-1-260C-UNLIM
CY74FCT16501ETPVCOBSOLETESSOPDL56TBDCall TICall TICY74FCT16501ETPVCTOBSOLETESSOPDL56TBDCall TICall TIFCT162501ATPACTE4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)FCT162501ATPACTG4ACTIVETSSOPDGG562000Green (RoHS & no Sb/Br)CU NIPDAULevel-1-260C-UNLIM no Sb/Br)	CY74FCT16501ETPAC	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
CY74FCT16501ETPVCT OBSOLETE SSOP DL 56 TBD Call TI Call TI FCT162501ATPACTE4 ACTIVE TSSOP DGG 56 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br) FCT162501ATPACTG4 ACTIVE TSSOP DGG 56 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br)	CY74FCT16501ETPACT	OBSOLETE	TSSOP	DGG	56		TBD	Call TI	Call TI
FCT162501ATPACTE4 ACTIVE TSSOP DGG 56 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br) FCT162501ATPACTG4 ACTIVE TSSOP DGG 56 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br)	CY74FCT16501ETPVC	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
no Šb/Br) FCT162501ATPACTG4 ACTIVE TSSOP DGG 56 2000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM no Sb/Br)	CY74FCT16501ETPVCT	OBSOLETE	SSOP	DL	56		TBD	Call TI	Call TI
no Šb/Br)	FCT162501ATPACTE4	ACTIVE	TSSOP	DGG	56	2000		CU NIPDAU	Level-1-260C-UNLIM
FCT162501ATPVCTG4 ACTIVE SSOP DL 56 1000 Green (RoHS & CU NIPDAU Level-1-260C-UNLIM	FCT162501ATPACTG4	ACTIVE	TSSOP	DGG	56	2000		CU NIPDAU	Level-1-260C-UNLIM
	FCT162501ATPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS &	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⁾
						no Sb/Br)		
FCT162501CTPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162501CTPACTG4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162501CTPVCTG4	ACTIVE	SSOP	DL	56	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H501CTPACTE4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H501CTPACTG4	ACTIVE	TSSOP	DGG	56	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H501CTPVCG4	ACTIVE	SSOP	DL	56	20	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
FCT162H501CTPVCTG4	ACTIVE	SSOP	DL	56	1000	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.

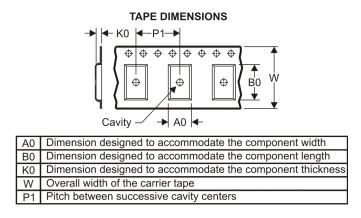
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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal												
Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
74FCT162501ATPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
74FCT162501ATPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
74FCT162501CTPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
74FCT162501CTPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
74FCT162H501CTPACT	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
74FCT162H501CTPVCT	SSOP	DL	56	1000	330.0	32.4	11.35	18.67	3.1	16.0	32.0	Q1
CY74FCT16501ATPVCT	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)
74FCT162501ATPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
74FCT162501ATPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
74FCT162501CTPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
74FCT162501CTPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
74FCT162H501CTPACT	TSSOP	DGG	56	2000	346.0	346.0	41.0
74FCT162H501CTPVCT	SSOP	DL	56	1000	346.0	346.0	49.0
CY74FCT16501ATPVCT	SSOP	DL	56	1000	346.0	346.0	49.0

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



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



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