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ISTRUMENTS

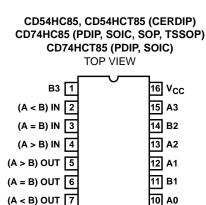
Data sheet acquired from Harris Semiconductor SCHS136E

August 1997 - Revised October 2003

Features

- Buffered Inputs and Outputs
- Typical Propagation Delay: 13ns (Data to Output at $V_{CC} = 5V, C_L = 15pF, T_A = 25^{\circ}C$
- · Serial or Parallel Expansion Without External Gating
- Fanout (Over Temperature Range)
 - Standard Outputs 10 LSTTL Loads
 - Bus Driver Outputs 15 LSTTL Loads
- Wide Operating Temperature Range ... -55°C to 125°C
- Balanced Propagation Delay and Transition Times
- Significant Power Reduction Compared to LSTTL Logic ICs
- HC Types
 - 2V to 6V Operation
 - High Noise Immunity: N_{IL} = 30%, N_{IH} = 30% of V_{CC} at $V_{CC} = 5V$
- HCT Types
 - 4.5V to 5.5V Operation
 - Direct LSTTL Input Logic Compatibility, V_{IL}= 0.8V (Max), V_{IH} = 2V (Min)
 - CMOS Input Compatibility, I_I ≤ 1μA at V_{OL}, V_{OH}

Pinout



GND 8

Description

The 'HC85 and 'HCT85 are high speed magnitude comparators that use silicon-gate CMOS technology to achieve operating speeds similar to LSTTL with the low power consumption of standard CMOS integrated circuits.

CD54HCT85, CD74HCT85

High-Speed CMOS Logic

4-Bit Magnitude Comparator

These 4-bit devices compare two binary, BCD, or other monotonic codes and present the three possible magnitude results at the outputs (A > B, A < B, and A = B). The 4-bit input words are weighted (A0 to A3 and B0 to B3), where A3 and B₃ are the most significant bits.

The devices are expandable without external gating, in both serial and parallel fashion. The upper part of the truth table indicates operation using a single device or devices in a serially expanded application. The parallel expansion scheme is described by the last three entries in the truth table.

Ordering Information

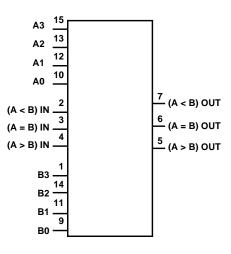
PART NUMBER	TEMP. RANGE (^o C)	PACKAGE
CD54HC85F3A	-55 to 125	16 Ld CERDIP
CD54HCT85F3A	-55 to 125	16 Ld CERDIP
CD74HC <mark>85</mark> E	-55 to 125	16 Ld PDIP
CD74HC85M	-55 to 125	16 Ld SOIC
CD74HC85MT	-55 to 125	16 Ld SOIC
CD74HC85M96	-55 to 125	16 Ld SOIC
CD74HC85NSR	-55 to 125	16 Ld SOP
CD74HC85PW	-55 to 125	16 Ld TSSOP
CD74HC85PWR	-55 to 125	16 Ld TSSOP
CD74HC85PWT	-55 to 125	16 Ld TSSOP
CD74HCT85E	-55 to 125	16 Ld PDIP
CD74HCT85M	-55 to 125	16 Ld SOIC
CD74HCT85MT	-55 to 125	16 Ld SOIC
CD74HCT85M96	-55 to 125	16 Ld SOIC

NOTE: When ordering, use the entire part number. The suffixes 96 and R denote tape and reel. The suffix T denotes a small-quantity reel of 250.

CAUTION: These devices are sensitive to electrostatic discharge. Users should follow proper IC Handling Procedures. Copyright © 2003, Texas Instruments Incorporated 1

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PFunctional Diagram



TRUTH TABLE

	COMPARI	NG INPUTS		CAS	CADING IN	PUTS	OUTPUTS			
A3, B3	A2, B2	A1, B1	A0, B0	A > B	A < B	A = B	A > B	A < B	A = B	
SINGLE DEVIC	E OR SERIES C	ASCADING		<u> </u>	-		-		-	
A3 > B3	x	Х	Х	х	х	x	н	L	L	
A3 < B3	х	Х	Х	х	х	х	L	н	L	
A3 = B3	A2 >B2	х	х	х	х	x	н	L	L	
A3 = B3	A2 < B2	x	x	х	x	x	L	н	L	
A3 = B3	A2 = B2	A1 > B1	х	х	x	x	н	L	L	
A3 = B3	A2 = B2	A1 < B1	х	х	х	х	L	н	L	
A3 = B3	A2 = B2	A1 = B1	A0 > B0	х	х	х	н	L	L	
A3 = B3	A2 = B2	A1 = B1	A0 < B0	х	х	х	L	н	L	
A3 = B3	A2 = B2	A1 = B1	A0 = B0	н	L	L	н	L	L	
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	н	L	L	н	L	
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	н	L	L	н	
PARALLEL CA	SCADING		•							
A3 = B3	A2 = B2	A1 = B1	A0 = B0	Х	Х	н	L	L	Н	
A3 = B3	A2 = B2	A1 = B1	A0 = B0	Н	н	L	L	L	L	
A3 = B3	A2 = B2S	A1 = B1	A0 = B0	L	L	L	н	н	L	

H = High Voltage Level, L = Low Voltage, Level, X = Don't Care

Absolute Maximum Ratings

DC Supply Voltage, V _{CC} 0.5V to 7V DC Input Diode Current, I_{IK}
For $V_{l} < -0.5V$ or $V_{l} > V_{CC} + 0.5V$ ±20mA
DC Output Diode Current, I _{OK}
For $V_O < -0.5V$ or $V_O > V_{CC} + 0.5V$
DC Output Source or Sink Current per Output Pin, IO
For $V_{O} > -0.5V$ or $V_{O} < V_{CC} + 0.5V$ ±25mA
DC V _{CC} or Ground Current, I _{CC or} I _{GND} ±50mA
Operating Conditions
Temperature Range (T _A)

Operating Conditions
Temperature Range (T _A)
Supply Voltage Range, V _{CC}
HC Types
HCT Types4.5V to 5.5V
DC Input or Output Voltage, VI, VO 0V to VCC
Input Rise and Fall Time
2V
4.5V 500ns (Max)
6V

Thermal Information

Package Thermal Impedance, θ _{JA} (see Note 1): E (PDIP) Package
PW (TSSOP) Package 108 ^o C/W
Maximum Junction Temperature
Maximum Lead Temperature (Soldering 10s)

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

NOTE:

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

DC Electrical Specifications

		TE: CONDI		v _{cc}		25 ⁰ C		-40°C 1	O 85°C	-55°C T	O 125 ⁰ C	
PARAMETER SYM		V _I (V)	I _O (mA) (Ŭ)		MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES												
High Level Input	VIH	-	-	2	1.5	-	-	1.5	-	1.5	-	V
Voltage				4.5	3 .15	-	-	3.15	-	3.15	-	V
				6	4.2	-	-	4.2	-	4.2	-	V
Low Level Input	VIL	-	-	2	-	-	0.5	-	0.5	-	0.5	V
Voltage				4.5	-	-	1.35	-	1.35	-	1.35	V
				6	-	-	1.8	-	1.8	-	1.8	V
High Level Output	VOH	V _{IH} or V _{IL}	-0.02	2	1.9	-	-	1.9	-	1.9	-	V
Voltage CMOS Loads			-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
CINICO LUAUS			-0.02	6	5.9	-	-	5.9	-	5.9	-	V
High Level Output			-	-	-	-	-	-	-	-	-	V
Voltage TTL Loads			-4	4.5	3.98	-	-	3.84	-	3.7	-	V
			-5.2	6	5.48	-	-	5.34	-	5.2	-	V
Low Level Output	V _{OL}	/ _{OL} V _{IH} or V _{IL}	0.02	2	-	-	0.1	-	0.1	-	0.1	V
Voltage CMOS Loads			0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
CINOS LUdus			0.02	6	-	-	0.1	-	0.1	-	0.1	V
Low Level Output Voltage TTL Loads			4	4.5	-	-	0.26	-	0.33	-	0.4	V
			5.2	6	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	lı	V _{CC} or GND	-	6	-	-	±0.1	-	±1	-	±1	μA
Quiescent Device Current	Icc	V _{CC} or GND	0	6	-	-	8	-	80	-	160	μA

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DC Electrical Specifications (Continued)

		TE: CONDI	-	Vcc		25 ⁰ C		-40 ^о С т	O 85°C	-55 ⁰ С Т	O 125 ⁰ C	
PARAMETER	SYMBOL	V _I (V)	I _O (mA)	(V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HCT TYPES												
High Level Input Voltage	VIH	-	-	4.5 to 5.5	2	-	-	2	-	2	-	V
Low Level Input Voltage	VIL	-	-	4.5 to 5.5	-	-	0.8	-	0.8	-	0.8	V
High Level Output Voltage CMOS Loads	V _{OH}	V _{IH} or V _{IL}	-0.02	4.5	4.4	-	-	4.4	-	4.4	-	V
High Level Output Voltage TTL Loads			-4	4.5	3.98	-	-	3.84	-	3.7	-	V
Low Level Output Voltage CMOS Loads	V _{OL}	V _{IH} or V _{IL}	0.02	4.5	-	-	0.1	-	0.1	-	0.1	V
Low Level Output Voltage TTL Loads			4	4.5	-	-	0.26	-	0.33	-	0.4	V
Input Leakage Current	lı	V _{CC} and GND	0	5.5	-		±0.1	-	±1	-	±1	μA
Quiescent Device Current	Icc	V _{CC} or GND	0	5.5	-	-	8	-	80	-	160	μA
Additional Quiescent Device Current Per Input Pin: 1 Unit Load	∆I _{CC} (Note 2)	V _{CC} -2.1	-	4.5 to 5.5	-	100	360	-	450	-	490	μA

2. For dual-supply systems theoretical worst case ($V_1 = 2.4V$, $V_{CC} = 5.5V$) specification is 1.8mA.

HCT Input Loading Table

INPUT	UNIT LOADS						
A0-A3, B0-B3 and (A = B) IN	1.5						
(A > B) IN, (A < B) IN	1						

NOTE: Unit Load is ΔI_{CC} limit specified in DC Electrical Table, e.g. 360µA max at 25°C.

Switching Specifications Input tr, tf = 6ns

		TEST			25°C		-40 ⁰ 85	с то °С		С ТО 5°С	
PARAMETER	SYMBOL	-		MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
HC TYPES	-	-								-	-
Propagation Delay,	tPLH, tPHL	$C_L = 50 pF$	2	-	-	195	-	245	-	295	ns
A _n , B _n to (A > B) OUT, (A < B) OUT			4.5	-	-	39	-	47	-	59	ns
(A < B) 001		C _L = 15pF	5	-	16	-	-	-	-	-	ns
		$C_L = 50 pF$	6	-	-	33	-	42	-	50	ns
A_n , B_n to (A = B) OUT	tPLH, tPHL	C _L = 50pF	2	-	-	175	-	240	-	265	ns
			4.5	-	-	35	-	44	-	53	ns
		C _L = 15pF	5	-	14	-	-	-	-	-	ns
		$C_L = 50 pF$	6	-	-	30	-	37	-	45	ns

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		TEST			25 ⁰ C		-40 ⁰ 85	с то ⁰С		С ТО 5°С	
PARAMETER	SYMBOL	CONDITIONS	V _{CC} (V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNITS
(A > B) IN, $(A < B)$ IN, $(A = B)$ IN	t _{PLH,} t _{PHL}	C _L = 50pF	2	-	-	140	-	175	-	210	ns
to $(A > B)$ OUT, $(A < B)$ OUT			4.5	-	-	28	-	35	-	42	ns
		C _L = 15pF	5	-	11	-	-	-	-	-	ns
		$C_L = 50 pF$	6	-	-	24	-	30	-	36	ns
(A > B) IN to $(A = B)$ OUT	t _{PLH,} t _{PHL}	$C_L = 50 pF$	2	-	-	120	-	150	-	180	ns
			4.5	-	-	24	-	30	-	36	ns
		C _L = 15pF	5	-	9	-	-	-	-	-	ns
		C _L = 50pF	6	-	-	20	-	26	-	31	ns
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	-	24	-	-	-	-	-	pF
Output Transition Times	t _{TLH} , t _{THL}	C _L = 50pF	2	-	-	75	-	95	-	110	ns
(Figure 1)			4.5	-	-	15	-	19	-	22	ns
			6	-	-	13	-	16	-	19	ns
Input Capacitance	C _{IN}	-	-	-	-	10	-	10	-	10	pF
HCT TYPES										-	
Propagation Delay,	t _{PLH} , t _{PHL}	$C_L = 50 pF$	4.5	-	-	37	-	46	-	56	ns
An, Bn to $(A > B)$ OUT, (A < B) OUT		C _L = 15pF	5	-	15	-	-	-	-	-	ns
An, Bn to (A = B) OUT	t _{PLH} , t _{PHL}	$C_L = 50 pF$	4.5	-	-	40	-	50	-	60	ns
		C _L = 15pF	5	-	17	-	-	-	-	-	ns
(A > B) IN, (A < B) IN, (A = B) IN	t _{PLH} , t _{PHL}	$C_L = 50 pF$	4.5	-	-	30	-	38	-	45	ns
to $(A > B)$ OUT, $(A < B)$ OUT		C _L = 15pF	5	-	12	-	-	-	-	-	ns
(A > B) IN to $(A = B)$ OUT	^t PLH, ^t PHL	C _L = 50pF	4.5	-	-	31	-	39	-	47	ns
		C _L = 15pF	5	-	13	-	-	-	-	-	ns
Output Transition Times (Figure 1)	ttlh <mark>, tth</mark> l	C _L = 50pF	4.5	-		15		19	-	22	ns
Power Dissipation Capacitance (Notes 3, 4)	C _{PD}	-	5	-	26	-	-	-	-	-	pF
Input Capacitance	CIN	-	-	-	-	10	-	10	-	10	pF

Switching Specifications Input tr, tf = 6ns (Continued)

NOTES:

3. $C_{\mbox{PD}}$ is used to determine the dynamic power consumption, per gate/package.

4. $P_D = V_{CC}^2 f_i (C_{PD} + C_L)$ where $f_i = Input$ Frequency, $C_L = Output$ Load Capacitance, $V_{CC} = Supply$ Voltage.

Test Circuits and Waveforms

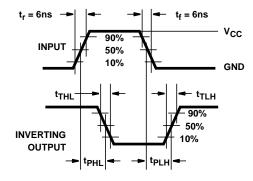
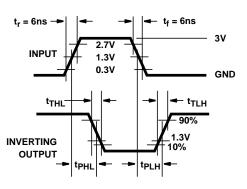
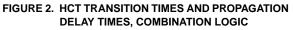
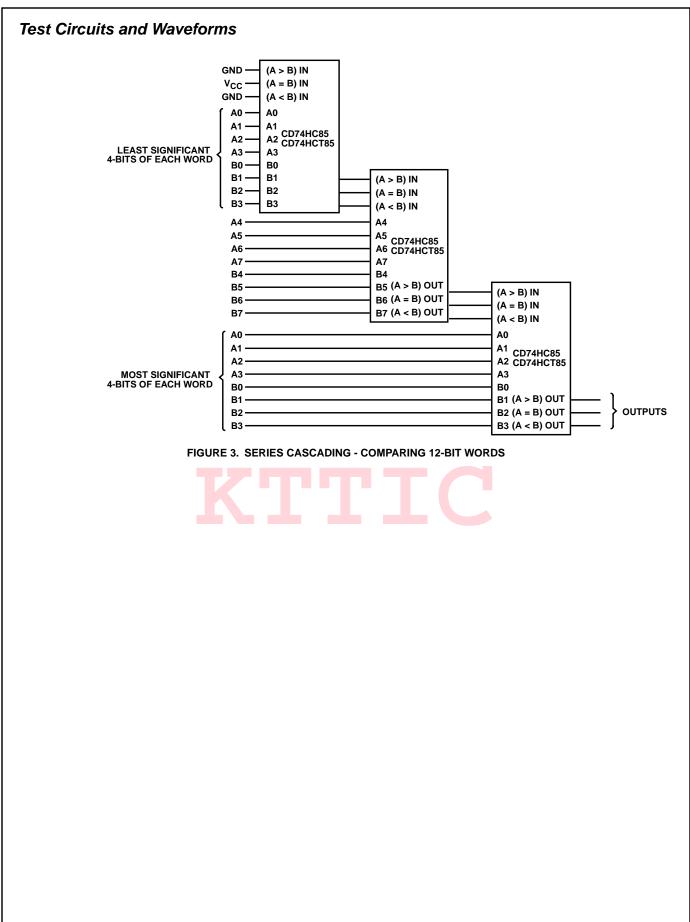


FIGURE 1. HC AND HCU TRANSITION TIMES AND PROPAGA-TION DELAY TIMES, COMBINATION LOGIC

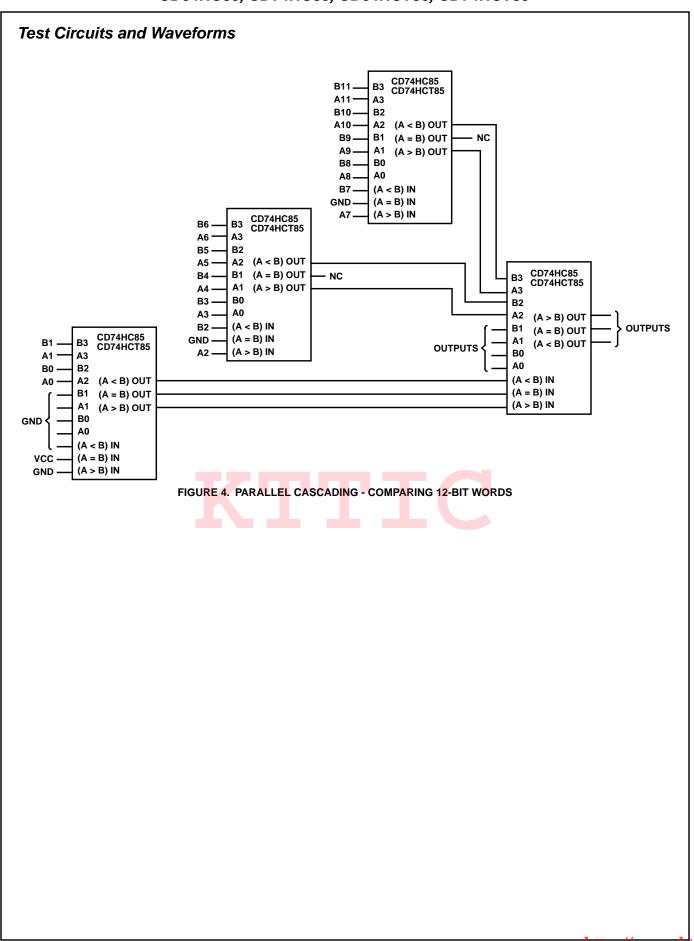






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CD54HC85, CD74HC85, CD54HCT85, CD74HCT85



TEXAS

TRUMENTS

28-Feb-2005

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	n MSL Peak Temp ⁽³⁾
5962-8867201EA	ACTIVE	CDIP	J	16	1	None	Call TI	Level-NC-NC-NC
8601301EA	ACTIVE	CDIP	J	16	1	None	Call TI	Level-NC-NC-NC
CD54HC85F3A	ACTIVE	CDIP	J	16	1	None	Call TI	Level-NC-NC-NC
CD54HCT85F3A	ACTIVE	CDIP	J	16	1	None	Call TI	Level-NC-NC-NC
CD74HC85E	ACTIVE	PDIP	Ν	16	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
CD74HC85M	ACTIVE	SOIC	D	16	40	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HC85M96	ACTIVE	SOIC	D	16	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HC85MT	ACTIVE	SOIC	D	16	250	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HC85NSR	ACTIVE	SO	NS	16	2000	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HC85PW	ACTIVE	TSSOP	PW	16	90	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
CD74HC85PWR	ACTIVE	TSSOP	PW	16	2000	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
CD74HC85PWT	ACTIVE	TSSOP	PW	16	250	Pb-Free (RoHS)	CU NIPDAU	Level-1-250C-UNLIM
CD74HCT85E	ACTIVE	PDIP	Ν	16	25	Pb-Free (RoHS)	CU NIPDAU	Level-NC-NC-NC
CD74HCT85M	ACTIVE	SOIC	D	16	40	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HCT85M96	ACTIVE	SOIC	D	16	2500	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-UNLIM
CD74HCT85MT	ACTIVE	SOIC	D	16	250	Pb-Free (RoHS)	CU NIPDAU	Level-2-260C-1 YEAR/ Level-1-235C-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 - May not be currently available - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

None: Not yet available Lead (Pb-Free).

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.

Green (RoHS & no Sb/Br): TI defines "Green" to mean "Pb-Free" and in addition, uses package materials that do not contain halogens, including bromine (Br) or antimony (Sb) above 0.1% of total product weight.

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDECindustry standard classifications, and peak solder temperature.

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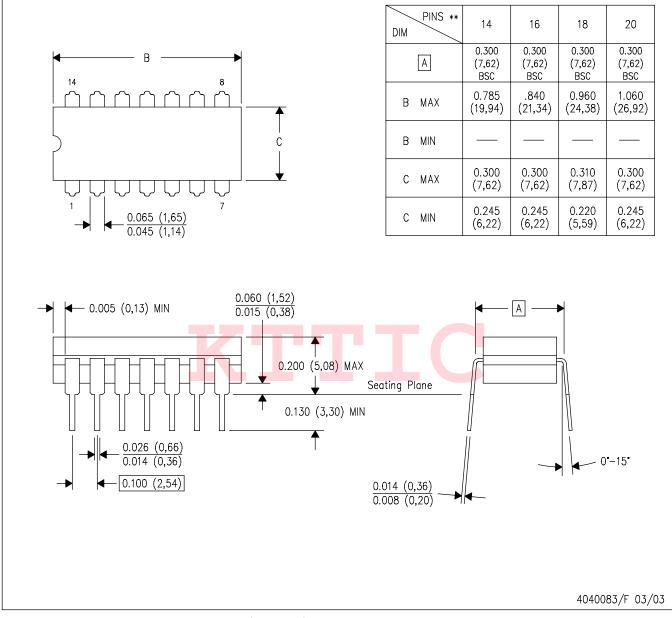
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J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



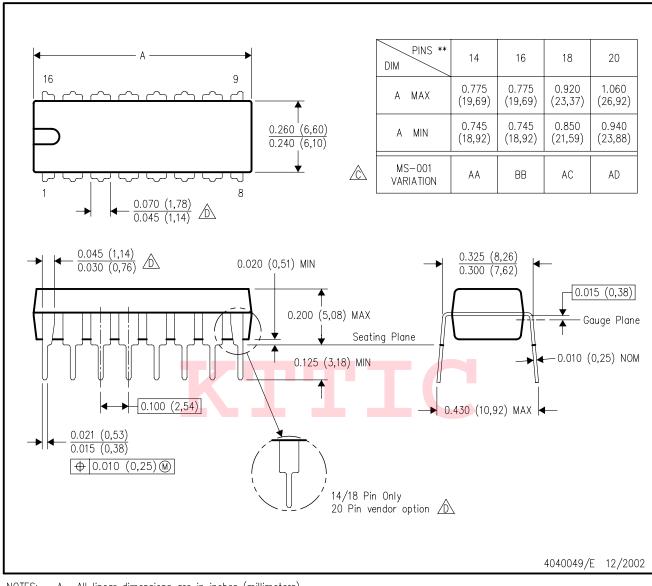
NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



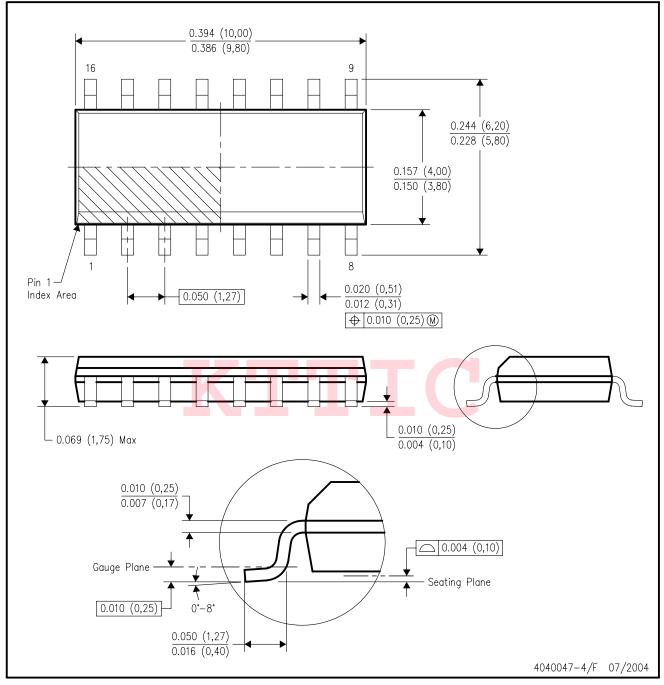
NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



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

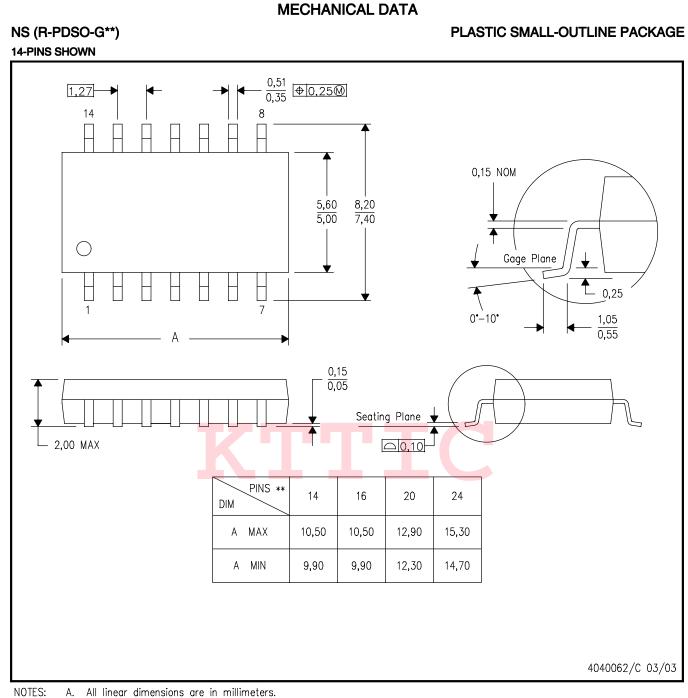
B. This drawing is subject to change without notice.

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

D. Falls within JEDEC MS-012 variation AC.



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- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

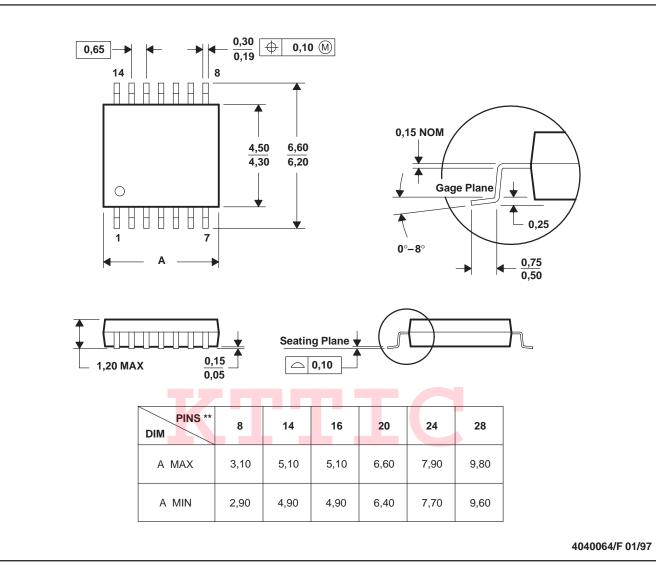


MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

PLASTIC SMALL-OUTLINE PACKAGE

PW (R-PDSO-G**)

14 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 flash or protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-153



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