8-Bit Serial or Parallel-Input/Serial-Output Shift Register with Input Latch

High-Performance Silicon-Gate CMOS

The MC74HC597A is identical in pinout to the LS597. The device inputs are compatible with standard CMOS outputs; with pullup resistors, they are compatible with LSTTL outputs.

This device consists of an 8-bit input latch which feeds parallel data to an 8-bit shift register. Data can also be loaded serially.

The HC597A is similar in function to the HC589A, which is a 3-state device.

Features

- Output Drive Capability: 10 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS, and TTL
- Operating Voltage Range: 2.0 to 6.0 V
- Low Input Current: 1.0 μA
- High Noise Immunity Characteristic of CMOS Devices
- In Compliance with the Requirements Defined by JEDEC Standard No. 7A
- Chip Complexity: 516 FETs or 129 Equivalent Gates
- These are Pb-Free Devices*



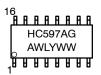
ON Semiconductor®

http://onsemi.com

MARKING DIAGRAMS



SOIC-16 D SUFFIX CASE 751B





TSSOP-16 DT SUFFIX CASE 948F



A = Assembly Location

WL, L = Wafer Lot YY, Y = Year WW, W = Work Week G or = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 2 of this data sheet.

^{*}For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

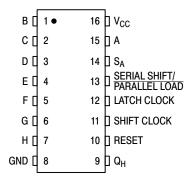


Figure 1. Pin Assignment

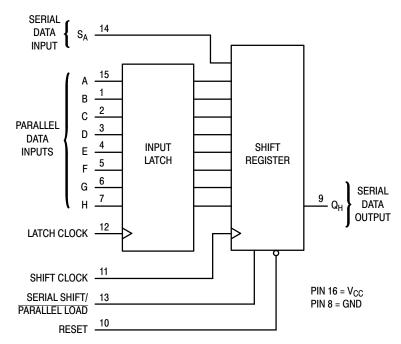


Figure 2. Logic Diagram

ORDERING INFORMATION

Device	Package	Shipping [†]
MC74HC597ADG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74HC597ADR2G	SOIC-16 (Pb-Free)	2500 Units / Reel
MC74HC597ADTR2G	TSSOP-16 (Pb-Free)	2500 Units / Reel
MC74HC597ADTG	TSSOP-16 (Pb-Free)	96 Units / Tube

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage (Referenced to GND)	- 0.5 to + 7.0	V
V _{in}	DC Input Voltage (Referenced to GND)	- 0.5 to V _{CC} + 0.5	V
V _{out}	DC Output Voltage (Referenced to GND)	- 0.5 to V _{CC} + 0.5	V
l _{in}	DC Input Current, per Pin	± 20	mA
I _{out}	DC Output Current, per Pin	± 25	mA
I _{CC}	DC Supply Current, V _{CC} and GND Pins	± 50	mA
P _D	Power Dissipation in Still Air, Plastic or Ceramic DIP† SOIC Package† TSSOP Package†	750 500 450	mW
T _{stg}	Storage Temperature	- 65 to + 150	°C
T _L	Lead Temperature, 1 mm from Case for 10 Seconds (Plastic DIP, SOIC or TSSOP Package) (Ceramic DIP)	260 300	°C

This device contains protection circuitry to guard against damage due to high static voltages or electric fields. However, precautions must be taken to avoid applications of any voltage higher than maximum rated voltages to this high–impedance circuit. For proper operation, V_{in} and V_{out} should be constrained to the range GND \leq $(V_{in}$ or $V_{out}) \leq$ V_{CC} .

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either GND or V_{CC}). Unused outputs must be left open.

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

†Derating — Plastic DIP: – 10 mW/ $^{\circ}$ C from 65 $^{\circ}$ to 125 $^{\circ}$ C

Ceramic DIP: - 10 mW/°C from 100° to 125°C SOIC Package: - 7 mW/°C from 65° to 125°C TSSOP Package: - 6.1 mW/°C from 65° to 125°C

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Max	Unit
V _{CC}	DC Supply Voltage (Referenced to GND)		2.0	6.0	٧
V _{in} , V _{out}	DC Input Voltage, Output Voltage (Reference	ed to GND)	0	V_{CC}	٧
T _A	Operating Temperature, All Package Types		- 55	+ 125	°C
t _r , t _f	(Figure 1)	V _{CC} = 2.0 V V _{CC} = 3.0 V V _{CC} = 4.5 V V _{CC} = 6.0 V	0 0 0 0	1000 600 500 400	ns

DC ELECTRICAL CHARACTERISTICS (Voltages Referenced to GND)

				Gu	aranteed Li	mit	
Symbol	Parameter	Test Conditions	v _{cc}	– 55 to 25°C	≤ 85 °C	≤ 125°C	Unit
V _{IH}	Minimum High-Level Input Voltage	V_{out} = 0.1 V or V_{CC} – 0.1 V $ I_{out} \le 20 \mu A$	2.0 3.0 4.5 6.0	1.5 2.1 3.15 4.2	1.5 2.1 3.15 4.2	1.5 2.1 3.15 4.2	V
V _{IL}	Maximum Low-Level Input Voltage	V_{out} = 0.1 V or V_{CC} – 0.1 V $ I_{out} \le 20 \mu A$	2.0 3.0 4.5 6.0	0.5 0.9 1.35 1.8	0.5 0.9 1.35 1.8	0.5 0.9 1.35 1.8	V
V _{OH}	Minimum High-Level Output Voltage	$V_{in} = V_{IH} \text{ or } V_{IL}$ $ I_{out} \le 20 \mu\text{A}$	2.0 4.5 6.0	1.9 4.4 5.9	1.9 4 4 5.9	1.9 4 4 5.9	V
		$ \begin{aligned} V_{in} = V_{IH} \text{ or } V_{IL} & I_{out} \leq 2.4 \text{ mA} \\ I_{out} \leq 4.0 \text{ mA} \\ I_{out} \leq 5.2 \text{ mA} \end{aligned} $	3.0 4.5 6.0	2.48 3.98 5.48	2.34 3.84 5.34	2.20 3.70 5.20	
V _{OL}	Maximum Low-Level Output Voltage	$V_{in} = V_{IH} \text{ or } V_{IL}$ $ I_{out} \le 20 \ \mu\text{A}$	2.0 4.5 6.0	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	V
		$ \begin{aligned} V_{in} = V_{IH} \text{ or } V_{IL} & & I_{out} \leq 2.4 \text{ mA} \\ & & I_{out} \leq 4.0 \text{ mA} \\ & & I_{out} \leq 5.2 \text{ mA} \end{aligned} $	3.0 4.5 6.0	0.26 0.26 0.26	0.33 0.33 0.33	0.40 0.40 0.40	
I _{in}	Maximum Input Leakage Current	V _{in} = V _{CC} or GND	6.0	± 0.1	± 1.0	± 1.0	μΑ
I _{CC}	Maximum Quiescent Supply Current (per Package)	V _{in} = V _{CC} or GND I _{out} = 0 μA	6.0	4	40	160	μΑ

AC ELECTRICAL CHARACTERISTICS ($C_L = 50 \text{ pF}$, Input $t_r = t_f = 6 \text{ ns}$)

			Gu	Guaranteed Limit		
Symbol	Parameter	V _{CC}	– 55 to 25°C	≤ 85 °C	≤ 125°C	Unit
f _{max}	Maximum Clock Frequency (50% Duty Cycle), Shift Clock (Figures 4 and 10)	2.0 3.0 4.5 6.0	10 15 30 50	9 14 28 45	8 12 25 40	MHz
t _{PLH} , t _{PHL}	Maximum Propagation Delay, Latch Clock to Q _H (Figures 3 and 10)	2.0 3.0 4.5 6.0	175 100 40 30	225 110 50 40	275 125 60 50	ns
t _{PLH} , t _{PHL}	Maximum Propagation Delay, Shift Clock to Q _H (Figures 4 and 10)	2.0 3.0 4.5 6.0	160 90 30 25	200 130 40 30	240 160 48 40	ns
t _{PHL}	Maximum Propagation Delay, Reset to Q _H (Figures 5 and 10)	2.0 3.0 4.5 6.0	160 90 30 25	200 130 40 30	240 160 48 40	ns
t _{PLH} , t _{PHL}	Maximum Propagation Delay, Serial Shift/Parallel Load to Q _H (Figures 6 and 10)	2.0 3.0 4.5 6.0	160 90 30 25	200 130 40 30	240 160 48 40	ns
t _{TLH} , t _{THL}	Maximum Output Transition Time, Any Output (Figures 3 and 10)	2.0 3.0 4.5 6.0	75 27 15 13	95 32 19 16	110 36 22 19	ns
C _{in}	Maximum Input Capacitance	_	10	10	10	pF

		Typical @ 25°C, V _{CC} = 5.0 V	
C_{PD}	Power Dissipation Capacitance (Per Package)*	40	pF

^{*}Used to determine the no-load dynamic power consumption: $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$

PIN DESCRIPTIONS

DATA INPUTS

A, B, C, D, E, F, G, H (Pins 15, 1, 2, 3, 4, 5, 6, 7)

Parallel data inputs. Data on these inputs is stored in the input latch on the rising edge of the Latch Clock input.

S_A (Pin 14)

Serial data input. Data on this input is shifted into the shift register on the rising edge of the Shift Clock input it Serial Shift/Parallel Load is high. Data on this input is ignored when Serial Shift/Parallel Load is low.

CONTROL INPUTS

Serial Shift/Parallel Load (Pin 13)

Shift register mode control. When a high level is applied to this pin, the shift register is allowed to serially shift data. When a low level is applied to this pin, the shift register accepts parallel data from the input latch, and serial shifting is inhibited.

Reset (Pin 10)

Asynchronous, Active—low shift register reset. A low level applied to this input resets the shift register to a low level, but does not change the data in the input latch.

Shift Clock (Pin 11)

Serial shift register clock. A low-to-high transition on this input shifts data on the Serial Data Input into the shift register and data in stage H is shifted out Q_H , being replaced by the data previously stored in stage G.

Latch Clock (Pin 12)

Latch clock. A low-to-high transition on this input loads the parallel data on inputs A-H into the input latch.

OUTPUT

Q_H (Pin 9)

Serial data output. This pin is the output from the last stage of the shift register.

TIMING REQUIREMENTS (Input $t_r = t_f = 6 \text{ ns}$)

			Guaranteed Limit				
Symbol	Parameter	v _{cc} v	– 55 to 25°C	≤ 85 °C	≤ 125°C	Uni	
t _{su}	Minimum Setup Time, Parallel Data inputs A-H to Latch Clock (Figure 7)	2.0 3.0 4.5	70 40 15	80 45 19	90 50 24	ns	
t _{su}	Minimum Setup Time, Serial Data Input S _A to Shift Clock (Figure 8)	2.0 3.0 4.5 6.0	70 40 15 13	16 80 45 19 16	90 50 24 20	ns	
t _{su}	Minimum Setup Time, Serial Shift/Parallel Load to Shift Clock (Figure 9)	2.0 3.0 4.5 6.0	70 40 15 13	80 45 19 16	90 50 24 20	ns	
t _h	Minimum Hold Time, Latch Clock to Parallel Data Inputs A-H (Figure 7)	2.0 3.0 4.5 6.0	15 10 2 2	20 15 3 3	30 25 5 4	ns	
t _h	Minimum Hold Time, Shift Clock to Serial Data Input S _A (Figure 8)	2.0 3.0 4.5 6.0	2 2 2 2	2 2 2 2	2 2 2 2	ns	
t _{rec}	Minimum Recovery Time, Reset Inactive to Shift Clock (Figure 5)	2.0 3.0 4.5 6.0	70 40 15 13	80 45 19 16	90 50 24 20	ns	
t _w	Minimum Pulse Width, Latch Clock and Shift Clock (Figures 3 and 4)	2.0 3.0 4.5 6.0	60 35 12 10	70 40 15 13	80 45 19 16	ns	
t _w	Minimum Pulse Width, Reset (Figure 5)		60 35 12 10	70 40 15 13	80 45 19 16	ns	
t _w	Minimum Pulse Width, Serial Shift/Parallel Load (Figure 6)	2.0 3.0 4.5 6.0	60 35 12 10	70 40 15 13	80 45 19 16	ns	
t _r , t _f	Maximum Input Rise and Fall Times (Figure 3)	2.0 3.0 4.5 6.0	1000 800 500 400	1000 800 500 400	1000 800 500 400	ns	

NOTE: Information on typical parametric values can be found in Chapter 2 of the Motorola High-Speed CMOS Data Book (DL129/D).

FUNCTION TABLE

		Inputs						Resulting Function			
Operation	Reset	Serial Shift/ Parallel Load	Latch Clock	Shift Clock	Serial Input S _A	Parallel Inputs A-H	Latch Contents	Shift Register Contents	Output Q _H		
Reset shift register	L	Х	L, H, ∕	Х	Х	Х	U	L	L		
Reset shift register; load parallel data into data latch	L	Х		Х	Х	a-h	a-h	L	L		
Load parallel data into data latch	Н	Н	7	L,H, ∕	Х	a-h	a-h	U	U		
Transfer latch contents to shift register	Н	L	L, H,∕∖	Х	Х	Х	U	$LR_N \!\to\! SR_N$	LR _H		
Contents of data latch and shift register are unchanged	Н	Н	L, H, ∕	L,H, ∕∕	Х	Х	U	U	U		
Load parallel data into data latch and shift register	Н	L	7	Х	Х	a-h	a-h	a-h	h		
Shift serial data into shift register	Н	Н	Х		D	Х	*	$SR_A = D;$ $SR_N \rightarrow SR_{N+1}$	$SR_G \rightarrow SR_H$		
Load parallel data into data latch and shift serial data into shift register	Н	Н	7	7	D	a-h	a-h	$SR_A = D;$ $SR_N \rightarrow SR_{N+1}$	$SR_G \rightarrow SR_H$		

LR = latch register contents
SR = shift register contents
* = depends on latch clock input

U = remains unchanged X = don't care

a-h = data at parallel data inputs A-H D = data (L, H) at serial data input S_A

SWITCHING WAVEFORMS

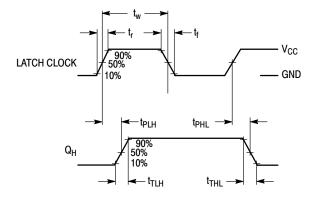


Figure 3. (Serial Shift/Parallel Load = L)

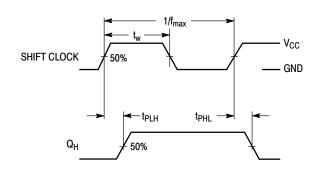


Figure 4. (Serial Shift/Parallel Load = H)

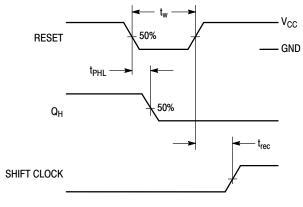


Figure 5.

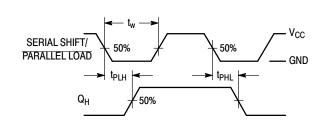


Figure 6.

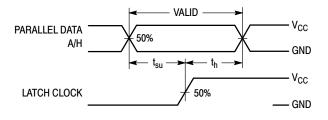


Figure 7.

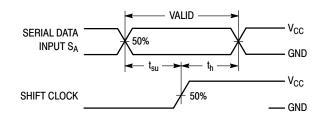


Figure 8.

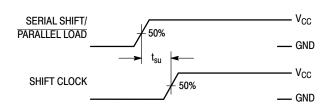
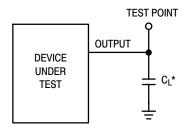


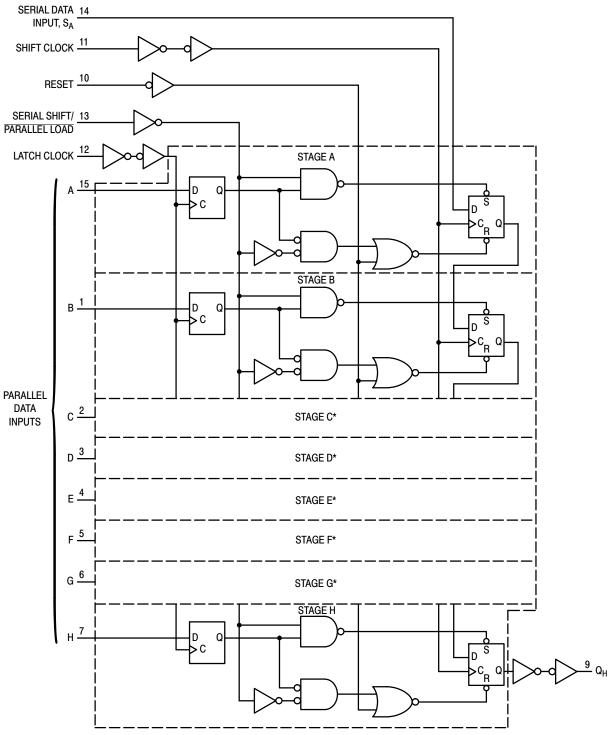
Figure 9.



*Includes all probe and jig capacitance

Figure 10. Test Circuit

EXPANDED LOGIC DIAGRAM



*NOTE: Stages C thru G (not shown in detail) are identical to stages A and B above.

Figure 11. Extended Logic Diagram

TIMING DIAGRAM

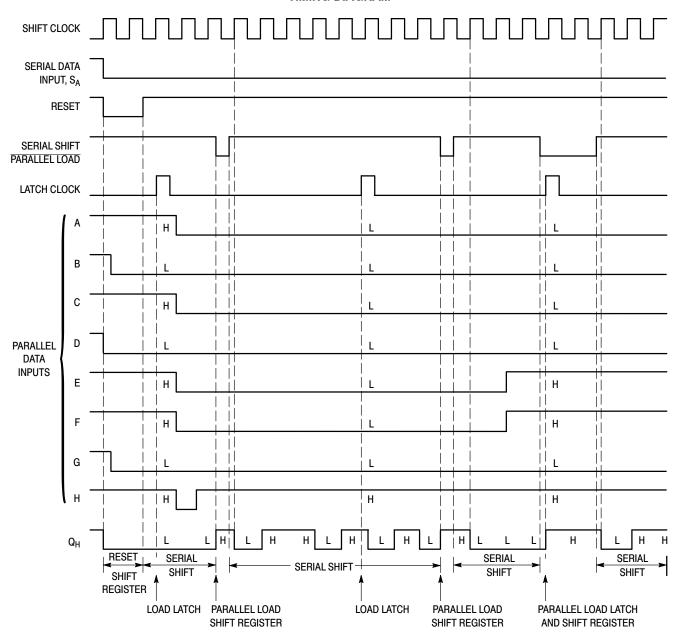


Figure 12. Timing Diagram

MECHANICAL CASE OUTLINE



DATE 29 DEC 2006

- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI
- THE NOTION AND TOLETANOING FER ANSI'Y 14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
 DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- PHOI HUSION.

 MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.

 DIMENSION D DOES NOT INCLUDE DAMBAR
 PROTRUSION. ALLOWABLE DAMBAR PROTRUSION

 SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D

 DIMENSION AT MAXIMUM MATERIAL CONDITION.

	MILLIN	METERS	INC	HES
DIM	MIN	MAX	MIN	MAX
Α	9.80	10.00	0.386	0.393
В	3.80	4.00	0.150	0.157
C	1.35	1.75	0.054	0.068
D	D 0.35 0.49 0		0.014	0.019
F	0.40	1.25	0.016	0.049
G	1.27	BSC	0.050	BSC
J	0.19	0.25	0.008	0.009
K	0.10	0.25	0.004	0.009
M	0°	0° 7°		7°
P	5.80	6.20	0.229	0.244
R	0.25	0.50	0.010	0.019

STYLE 1:		STYLE 2:		STYLE 3:		STYLE 4:			
PIN 1.	COLLECTOR	PIN 1.	CATHODE	PIN 1.	COLLECTOR, DYE #1	PIN 1.	COLLECTOR, DYE	#1	
2.	BASE	2.	ANODE	2.	BASE, #1	2.	COLLECTOR, #1		
3.	EMITTER	3.	NO CONNECTION	3.	EMITTER, #1	3.	COLLECTOR, #2		
4.	NO CONNECTION	4.	CATHODE	4.	COLLECTOR, #1	4.	COLLECTOR, #2		
5.	EMITTER	5.	CATHODE	5.	COLLECTOR, #2	5.	COLLECTOR, #3		
6.	BASE	6.	NO CONNECTION		BASE, #2	6.	COLLECTOR, #3		
7.	COLLECTOR	7.	ANODE	7.		7.	COLLECTOR, #4		
8.	COLLECTOR	8.	CATHODE	8.	COLLECTOR, #2	8.	COLLECTOR, #4		
9.	BASE	9.	CATHODE	9.	COLLECTOR, #3	9.	BASE, #4		
10.	EMITTER	10.	ANODE	10.	BASE, #3	10.	EMITTER, #4		
11.	NO CONNECTION	11.	NO CONNECTION	11.	EMITTER, #3	11.	BASE, #3		
12.	EMITTER	12.	CATHODE	12.	COLLECTOR, #3	12.	EMITTER, #3		
13.	BASE	13.	CATHODE	13.	COLLECTOR, #4	13.	BASE, #2	OOL DEDING	COOTDONT
14.	COLLECTOR	14.	NO CONNECTION	14.	BASE, #4	14.	EMITTER, #2	SOLDERING	FOOTPRINT
15.	EMITTER	15.	ANODE	15.	EMITTER, #4	15.	BASE, #1		8X
16.	COLLECTOR	16.	CATHODE	16.	COLLECTOR, #4	16.	EMITTER, #1		i.40 — →
								- 0	.40
STYLE 5:		STYLE 6:		STYLE 7:					16X 1.12
PIN 1.	DRAIN, DYE #1		CATHODE	PIN 1.	SOURCE N-CH				10% 1.12
2.	DRAIN, #1		CATHODE	2.	COMMON DRAIN (OUTPU	Τ\		1	16
3.	DRAIN, #2	3.		3.	COMMON DRAIN (OUTPU			, L .	'0
3. 4.	DRAIN, #2	3. 4.	CATHODE	3. 4.	GATE P-CH	1)		- —	
4. 5.	DRAIN, #2	4. 5.	CATHODE	4. 5.	COMMON DRAIN (OUTPU	Τ\		, , , , , , , , , , , , , , , , , , , 	
5. 6.	DRAIN, #3	6.	CATHODE	6.	COMMON DRAIN (OUTPU		16	5X 1 -	
7.	DRAIN, #4	7.	CATHODE	7.	COMMON DRAIN (OUTPU		0.5	58	, L
8.	DRAIN, #4	8.	CATHODE	8.	SOURCE P-CH	•,			
9.	GATE, #4	9.	ANODE	9.	SOURCE P-CH				
10.	SOURCE, #4	10.	ANODE	10.	COMMON DRAIN (OUTPU	T)			
11.	GATE, #3	11.		11.	COMMON DRAIN (OUTPU				
12.	SOURCE, #3	12.		12.	COMMON DRAIN (OUTPU				
13.	GATE, #2	13.		13.	GATE N-CH	.,			
14.	SOURCE, #2	14.		14.	COMMON DRAIN (OUTPU	T)			V PITCH
15.	GATE, #1	15.	ANODE	15.	COMMON DRAIN (OUTPU				1 <u>+=</u> 1_1
16.	SOURCE, #1		ANODE	16.	SOURCE N-CH	.,			
								□ 8	9 + - + -
									~
									' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
									DIMENSIONS: MILLIMETERS

DOCUMENT NUMBER:	98ASB42566B	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED"	
DESCRIPTION:	SOIC-16		PAGE 1 OF 1

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D

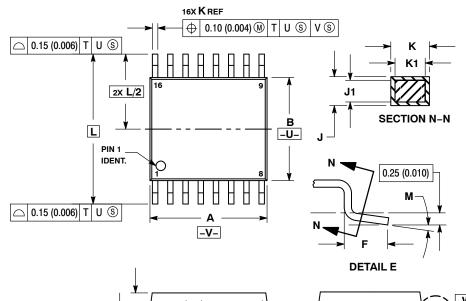
-T- SEATING PLANE





TSSOP-16 CASE 948F-01 ISSUE B

DATE 19 OCT 2006



NOTES

- JIES:
 DIMENSIONING AND TOLERANCING PER
 ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
 DIMENSION A DOES NOT INCLUDE MOLD
 FLASH. PROTRUSIONS OR GATE BURRS.
 MOLD EL ROLL OF GATE BURDS SUAL NO.
- MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
 DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION.
 INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
- DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION. TERMINAL NUMBERS ARE SHOWN FOR
- REFERENCE ONLY.
- 7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

	MILLIN	IETERS	INC	HES	
DIM	MIN	MAX	MIN	MAX	
Α	4.90	5.10	0.193	0.200	
В	4.30	4.50	0.169	0.177	
C		1.20		0.047	
D	0.05	0.15	0.002	0.006	
F	0.50	0.75	0.020	0.030	
G	0.65	BSC	0.026 BSC		
Н	0.18	0.28	0.007	0.011	
7	0.09	0.20	0.004	0.008	
J1	0.09	0.16	0.004	0.006	
K	0.19	0.30	0.007	0.012	
K1	0.19	0.25	0.007	0.010	
Ы	6.40		0.252	BSC	
М	0 °	8 °	0 °	8 °	

SOLDERING FOOTPRINT

G



GENERIC MARKING DIAGRAM*

168888888 XXXX XXXX **ALYW** 188888888

XXXX = Specific Device Code Α = Assembly Location

= Wafer Lot L Υ = Year W = Work Week = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

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