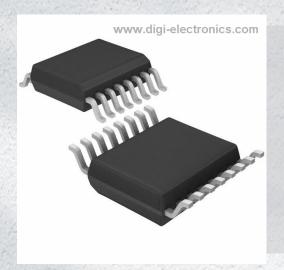


MC100LVEP34DT Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number MC100LVEP34DT-DG

Manufacturer onsemi

Manufacturer Product Number MC100LVEP34DT

Description IC CLOCK GENERATOR 16TSSOP

Detailed Description Clock Generator IC 2.8GHz 1 16-TSSOP (0.173", 4.40

mm Width)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC100LVEP34DT	onsemi
Series:	Product Status:
100LVEP	Obsolete
DiGi-Electronics Programmable:	Type:
Not Verified	Clock Generator
PLL:	Input:
No	CML, LVDS, NECL, PECL
Output:	Number of Circuits:
ECL	1
Ratio - Input:Output:	Differential - Input:Output:
1:3	Yes/Yes
Frequency - Max:	Divider/Multiplier:
2.8GHz	Yes/No
Voltage - Supply:	Operating Temperature:
2.375V ~ 3.8V	-40°C ~ 85°C
Mounting Type:	Package / Case:
Surface Mount	16-TSSOP (0.173", 4.40mm Width)
Supplier Device Package:	Base Product Number:
16-TSSOP	MC100LV

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

8542.39.0001



2.5 V/3.3 V ECL ÷2, ÷4, ÷8 Clock Generation Chip

MC100LVEP34

Description

The MC100LVEP34 is a low skew $\div 2$, $\div 4$, $\div 8$ clock generation chip designed explicitly for low skew clock generation applications. The internal dividers are synchronous to each other, therefore, the common output edges are all precisely aligned. The V_{BB} pin, an internally generated voltage supply, is available to this device only. For single–ended input conditions, the unused differential input is connected to V_{BB} as a switching reference voltage. V_{BB} may also rebias AC coupled inputs. When used, decouple V_{BB} and V_{CC} via a 0.01 μ F capacitor and limit current sourcing or sinking to 0.5 mA. When not used, V_{BB} should be left open.

The common enable (\overline{EN}) is synchronous so that the internal dividers will only be enabled/disabled when the internal clock is already in the LOW state. This avoids any chance of generating a runt clock pulse on the internal clock when the device is enabled/disabled as can happen with an asynchronous control. An internal runt pulse could lead to losing synchronization between the internal divider stages. The internal enable flip-flop is clocked on the falling edge of the input clock; therefore, all associated specification limits are referenced to the negative edge of the clock input.

Upon start-up, the internal flip-flops will attain a random state; the master reset (MR) input allows for the synchronization of the internal dividers, as well as multiple LVEP34s in a system. Single-ended CLK input operation is limited to a $V_{CC} \geq 3.0~V$ in PECL mode, or $V_{EE} \leq -3.0~V$ in NECL mode.

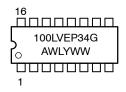
Features

- 35 ps Output-to-Output Skew
- Synchronous Enable/Disable
- · Master Reset for Synchronization
- The 100 Series Contains Temperature Compensation.
- PECL Mode Operating Range: V_{CC} = 2.375 V to 3.8 V with V_{EE} = 0 V
- NECL Mode Operating Range: $V_{CC} = 0 \text{ V}$ with $V_{EE} = -2.375 \text{ V}$ to -3.8 V
- Open Input Default State
- LVDS Input Compatible
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant





MARKING DIAGRAMS*





A = Assembly Location

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

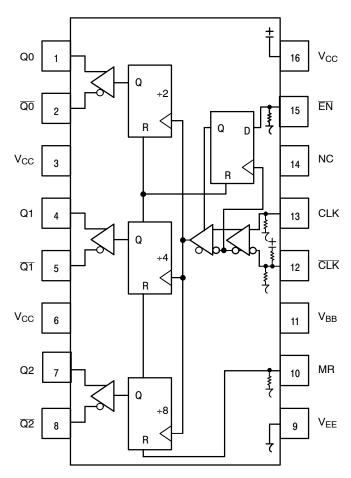
(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping [†]
MC100LVEP34DG	SOIC-16 (Pb-Free)	48 Units / Tube
MC100LVEP34DTG	TSSOP-16 (Pb-Free)	96 Units / Tube
MC100LVEP34DTR2G	TSSOP-16 (Pb-Free)	2500 / Tape & Reel

†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.

^{*}For additional marking information, refer to Application Note AND8002/D.



Warning: All $V_{\mbox{\footnotesize{CC}}}$ and $V_{\mbox{\footnotesize{EE}}}$ pins must be externally connected to Power Supply to guarantee proper operation.

Figure 1. 16-Lead Pinout (Top View) and Logic Diagram

Table 1. PIN DESCRIPTION

Tuble 1.1 III DESCRIPTION						
Pin	Function					
CLK*, CLK**	ECL Diff Clock Inputs					
EN*	ECL Sync Enable					
MR*	ECL Master Reset					
Q0, Q0	ECL Diff ÷2 Outputs					
Q1, <u>Q1</u>	ECL Diff ÷4 Outputs					
Q2, <u>Q2</u>	ECL Diff ÷8 Outputs					
V _{BB}	Reference Voltage Output					
V _{CC}	Positive Supply					
V _{EE}	Negative Supply					
NC	No Connect					

Table 2. FUNCTION TABLE

CLK	EN	MR	FUNCTION
Z	L	LLH	Divide
ZZ	H		Hold Q ₀₋₃
X	X		Reset Q ₀₋₃

Z = Low-to-High Transition ZZ = High-to-Low Transition

^{*} Pins will default LOW when left open. **Pins will default to $V_{CC}/2$ when left open.

Table 3. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	75 kΩ
Internal Input Pullup Resistor	37.5 kΩ
ESD Protection Human Body Model Machine Model Charged Device Model	> 2 kV > 200 V > 2 kV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 1)	Level 1
Flammability Rating Oxygen Index: 28 to 34	UL 94 V-O @ 0.125 in
Transistor Count	210 Devices
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	•

^{1.} For additional Moisture Sensitivity information, refer to Application Note AND8003/D.

Table 4. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V _{CC}	PECL Mode Power Supply	V _{EE} = 0 V		6	V
V _{EE}	NECL Mode Power Supply	V _{CC} = 0 V		-6	V
VI	PECL Mode Input Voltage NECL Mode Input Voltage	V _{EE} = 0 V V _{CC} = 0 V	$V_{I} \leq V_{CC}$ $V_{I} \geq V_{EE}$	6 -6	V V
l _{out}	Output Current	Continuous Surge		50 100	mA mA
I _{BB}	V _{BB} Sink/Source			± 0.5	mA
T _A	Operating Temperature Range			-40 to +85	°C
T _{stg}	Storage Temperature Range			-65 to +150	°C
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	SOIC-16 SOIC-16	100 60	°C/W
θJC	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-16	33 to 36	°C/W
θJA	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	TSSOP-16 TSSOP-16	138 108	°C/W
θ _{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	TSSOP-16	33 to 36	°C/W
T _{sol}	Wave Solder	<2 to 3 sec @ 248°C		265	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Table 5. 100EP DC CHARACTERISTICS, PECL V_{CC} = 2.5 V, V_{EE} = 0 V (Note 2)

			-40°C		25°C						
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	40	50	60	40	50	60	42	52	62	mA
V _{OH}	Output HIGH Voltage (Note 3)	1355	1480	1605	1355	1480	1605	1355	1480	1605	mV
V _{OL}	Output LOW Voltage (Note 3)	505	680	900	505	680	900	505	680	900	mV
V _{IH}	Input HIGH Voltage (Single-Ended) (Note 4)	1335		1620	1335		1620	1275		1620	mV
V _{IL}	Input LOW Voltage (Single-Ended) (Note 4)	505		900	505		900	505		900	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 4, Note 5)	1.2		3.3	1.2		3.3	1.2		3.3	V
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D D	0.5 -150			0.5 -150			0.5 -150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

- Input and output parameters vary 1:1 with V_{CC}.
 All loading with 50 Ω to V_{CC} 2.0 V.
 Do not use V_{BB} at V_{CC} < 3.0 V. Single–Ended input CLK pin operation is limited to V_{CC} ≥ 3.0 V in PECL mode.
 V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 6. 100EP DC CHARACTERISTICS, PECL V_{CC} = 3.3 V, V_{EE} = 0 V (Note 6)

			-40°C 25°C								
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	40	50	60	40	50	60	42	52	62	mA
V _{OH}	Output HIGH Voltage (Note 7)	2155	2280	2405	2155	2280	2405	2155	2280	2405	mV
V _{OL}	Output LOW Voltage (Note 7)	1305	1570	1700	1305	1570	1700	1305	1570	1700	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	2075		2420	2075		2420	2075		2420	mV
V _{IL}	Input LOW Voltage (Single-Ended)	1305		1700	1305		1700	1305		1700	mV
V_{BB}	Output Voltage Reference (Note 8)	1775	1875	1975	1775	1875	1975	1775	1875	1975	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 9)	1.2		3.3	1.2		3.3	1.2		3.3	V
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D	0.5 -150			0.5 -150			0.5 -150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

- 6. Input and output parameters vary 1:1 with V_{CC} . V_{EE} can vary +0.925 V to -0.5 V.
- 7. All loading with 50 Ω to V_{CC} 2.0 V.
- Single–Ended input CLK pin operation is limited to V_{CC} ≥ 3.0 V in PECL mode.
 V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 7. 100EP DC CHARACTERISTICS, NECL $V_{CC} = 0 \text{ V}$, $V_{EE} = -3.8 \text{ V}$ to -2.375 V (Note 10)

		−40°C			25°C						
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	40	50	60	40	50	60	42	52	62	mA
V _{OH}	Output HIGH Voltage (Note 11)	-1145	-1020	-895	-1145	-1020	-895	-1145	-1020	-895	mV
V _{OL}	Output LOW Voltage (Note 11)	-1995	-1700	-1600	-1995	-1700	-1600	-1995	-1700	-1600	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	-1225		-880	-1225		-880	-1225		-880	mV
V _{IL}	Input LOW Voltage (Single-Ended)	-1995		-1600	-1995		-1600	-1995		-1600	mV
V_{BB}	Output Voltage Reference (Note 12)	-1525	-1425	-1325	-1525	-1425	-1325	-1525	-1425	-1325	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 13)	V _{EE}	+1.2	0.0 V _{EE} +1.2		1.2 0.0		+1.2	0.0	V	
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D D	0.5 -150			0.5 –150			0.5 –150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

Table 8. AC CHARACTERISTICS V_{CC}= 0 V; V_{EE}= -3.8 V to -2.375 V or V_{CC}= 2.375 V to 3.8 V; V_{EE}= 0 V (Note 14)

			-40°C		25°C						
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Toggle Frequency (See Figure 4. F _{max})	2.8			2.8			2.8			GHz
t _{PLH} t _{PHL}	Propagation CLK to Q0, Q1, Q2 Delay to Output MR to Q	550 500	650 600	750 700	600 550	700 650	800 750	650 600	750 700	850 800	ps
t _{JITTER}	RMS Clock Jitter DIV2 \leq 2.5 GHz (See Figure 4. $F_{max}/JITTER$) DIV2 \leq 3.0 GHz DIV4 \leq 2.5 GHz DIV4 \leq 3.0 GHz DIV8 \leq 2.5 GHz DIV8 \leq 3.0 GHz DIV8 \leq 3.0 GHz		0.36 0.34 0.26 0.32 0.27 0.32	0.4 0.4 0.4		0.30 0.40 0.29 0.38 0.30 0.39	0.4 0.5 0.5		0.35 0.63 0.33 0.60 0.34 1.10	0.6 0.5 0.5	ps
t _S	Setup Time EN	150	50		150	50		150	50		ps
t _H	Hold Time EN	200	100		200	100		200	100		ps
t _{RR}	Set/Reset Recovery	300	200		300	200		300	200		ps
V_{PP}	Input Swing (Note 15)	150		1000	150		1000	150		1000	mV
t _r t _f	Output Rise/Fall Times Q (20% – 80%)	90	170	200	100	180	250	120	200	280	ps

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm.

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

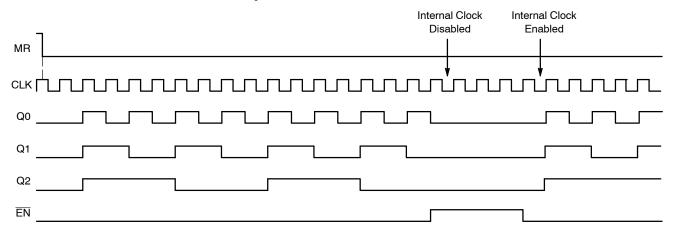
^{10.} Input and output parameters vary 1:1 with V_{CC}.

^{11.} All loading with 50 Ω to V_{CC} – 2.0 V. 12. Single–Ended input CLK pin operation is limited to V_{EE} \leq –3.0 V in NECL mode.

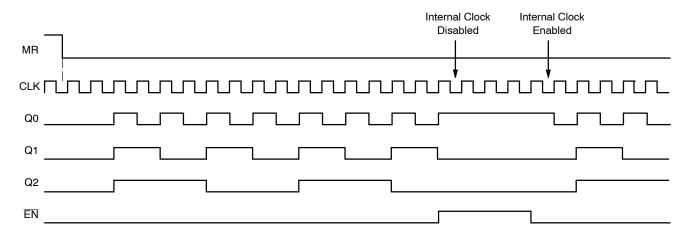
^{13.} V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential

^{14.} Measured using a 750 mV source, 50% duty cycle clock source. All loading with 50 Ω to V_{CC} – 2.0 V. 15. V_{PP} (min) is minimum input swing for which AC parameters guaranteed. The device has a DC gain of \approx 40.

There are two distinct functional relationships between the Master Reset and Clock:



CASE 1: If the MR is de-asserted (H-L), while the Clock is still high, the outputs will follow the second ensuing clock rising edge.



CASE 2: If the MR is de-asserted (H-L), after the Clock has transitioned low, the outputs will follow the third ensuing clock rising edge.

Figure 2. Timing Diagrams

The \overline{EN} signal will "freeze" the internal divider flip-flops on the first falling edge of CLK after its assertion. The internal divider flip-flops will maintain their state during the freeze. When \overline{EN} is deasserted (LOW), and after the next falling edge of CLK, then the internal divider flip-flops will "unfreeze" and continue to their next state count with proper phase relationships.

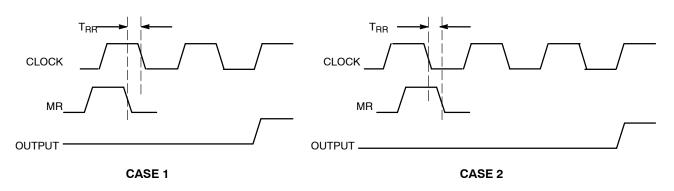


Figure 3. Reset Recovery Time

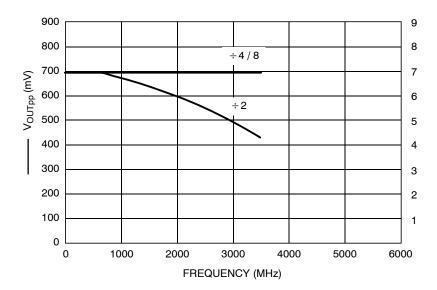


Figure 4. F_{max}

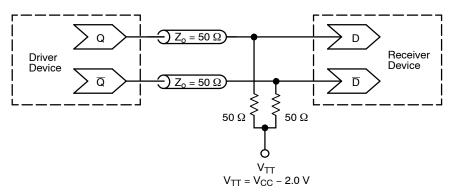


Figure 5. Typical Termination for Output Driver and Device Evaluation (See Application Note $\underline{\text{AND8020/D}}$ – Termination of ECL Logic Devices.)

Resource Reference of Application Notes

AN1405/D - ECL Clock Distribution Techniques

AN1406/D - Designing with PECL (ECL at +5.0 V)

AN1503/D - ECLinPS™ I/O SPiCE Modeling Kit

AN1504/D - Metastability and the ECLinPS Family

AN1568/D - Interfacing Between LVDS and ECL

AND8001/D - The ECL Translator Guide

AND8001/D - Odd Number Counters Design

AND8002/D - Marking and Date Codes

AND8020/D - Termination of ECL Logic Devices

AND8066/D - Interfacing with ECLinPS

AND8090/D - AC Characteristics of ECL Devices



MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

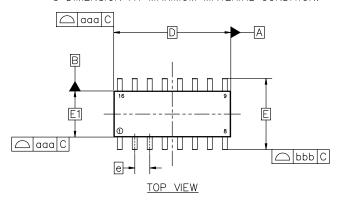


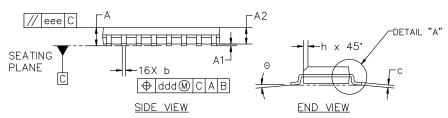
SOIC-16 9.90x3.90x1.37 1.27P CASE 751B ISSUE M

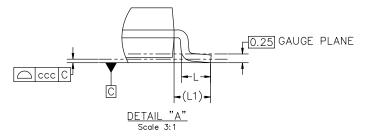
DATE 18 OCT 2024

NOTES:

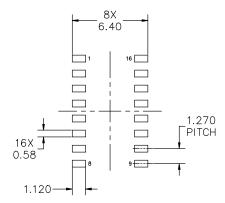
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION.







MILLIMETERS								
DIM	MIN	NOM	MAX					
А	1.35	1.55	1.75					
A1	0.10	0.18	0.25					
A2	1.25	1.37	1.50					
b	0.35	0.42	0.49					
С	0.19	0.22	0.25					
D		9.90 BSC						
E	6.00 BSC							
E1	3.90 BSC							
е	1.27 BSC							
h	0.25		0.50					
L	0.40	0.83	1.25					
L1		1.05 REF						
Θ	0.		7.					
TOLERAN	CE OF FO	RM AND	POSITION					
aaa	0.10							
bbb	0.20							
ccc	0.10							
ddd		0.25						
eee		0.10						



RECOMMENDED MOUNTING FOOTPRINT

*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE onsemi SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D

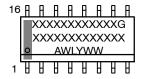
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SOIC-16 9.90x3.90x1.37 1.27P CASE 751B ISSUE M

DATE 18 OCT 2024

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code A = Assembly Location

WL = Wafer Lot
 Y = Year
 WW = Work Week
 G = 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. Some products may not follow the Generic Marking.

STYLE 2: PIN 1. STYLE 4: STYLE 1: STYLE 3: PIN 1. COLLECTOR CATHODE COLLECTOR, DYE #1 COLLECTOR, DYE #1 PIN 1. PIN 1. 2. BASE 2. ANODE COLLECTOR, #1 EMITTER NO CONNECTION NO CONNECTION CATHODE EMITTER, #1 COLLECTOR, #1 3. 3. 3 3 COLLECTOR, #2 4. 4. 5. COLLECTOR, #2 EMITTER CATHODE COLLECTOR, #2 COLLECTOR, #3 5. 6. 7. 8. BASE NO CONNECTION BASE, #2 COLLECTOR, #3 COLLECTOR FMITTER #2 COLLECTOR #4 ANODE CATHODE COLLECTOR COLLECTOR, #2 COLLECTOR, #4 8. BASE CATHODE COLLECTOR, #3 BASE, #4 EMITTER NO CONNECTION ANODE NO CONNECTION BASE, #3 EMITTER, #3 10. 10. 10. 10. EMITTER, #4 BASE, #3 11. 11. 11. 11. 12. **EMITTER** 12. CATHODE COLLECTOR, #3 EMITTER, #3 13. BASE 13. CATHODE 13. COLLECTOR, #4 13. BASE, #2 COLLECTOR NO CONNECTION EMITTER, #2 BASE, #4 14. 14. 14. 14. EMITTER BASE, #1 15. ANODE EMITTER, #4 15. 15. 16. COLLECTOR 16. CATHODE 16. COLLECTOR, #4 16. EMITTER, #1 STYLE 5: STYLE 6: STYLE 7: SOURCE N-CH COMMON DRAIN (OUTPUT) DRAIN, DYE #1 CATHODE 2 DRAIN #1 2. 3. CATHODE DRAIN, #2 CATHODE COMMON DRAIN (OUTPUT) 3. GATE P-CH COMMON DRAIN (OUTPUT) DRAIN, #2 CATHODE CATHODE 5. DRAIN, #3 5. 5. 6. 7. 8. 9. CATHODE COMMON DRAIN (OUTPUT) DRAIN, #3 6. DRAIN, #4 CATHODE COMMON DRAIN (OUTPUT) CATHODE ANODE DRAIN, #4 SOURCE P-CH GATE, #4 SOURCE P-CH 9. 10. SOURCE, #4 10. ANODE 10. COMMON DRAIN (OUTPUT) 11. GATE, #3 11. ANODE 11. COMMON DRAIN (OUTPUT) COMMON DRAIN (OUTPUT) 12. SOURCE, #3 12. ANODE 12 ANODE 13. 13. GATE, #2 13. GATE N-CH SOURCE, #2 ANODE COMMON DRAIN (OUTPUT) COMMON DRAIN (OUTPUT) 15 15. GATE, #1 15. ANODE SOURCE N-CH SOURCE, #1 ANODE 16.

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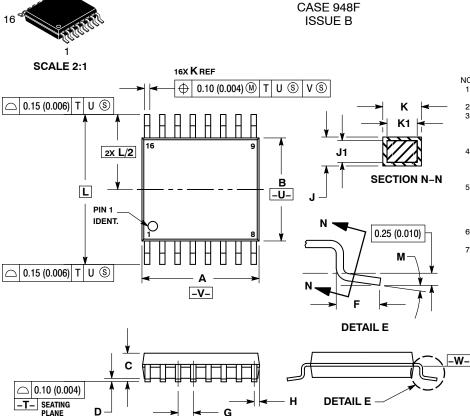
TSSOP-16 WB



MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

DATE 19 OCT 2006

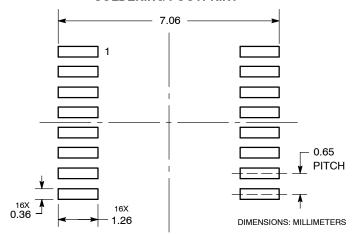


NOTES

- DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSION A DOES NOT INCLUDE MOLD FLASH. PROTRUSIONS OR GATE BURRS. 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
- IN TERLEAD FLASH OH PROTHOSION 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.
- DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
В	4.30	4.50	0.169	0.177
С		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
J	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
L	6.40		0.252	BSC
М	0 °	8 °	0 °	8 °

RECOMMENDED SOLDERING FOOTPRINT*



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

GENERIC MARKING DIAGRAM*



= Specific Device Code XXXX Α = Assembly Location

= Wafer Lot L = Year W = Work Week G or • = 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. Some products may not follow the Generic Marking.

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