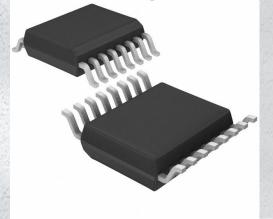


MC100LVEP34DTG Datasheet

www.digi-electronics.com



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

MC100LVEP34DTG-DG

onsemi

MC100LVEP34DTG

IC CLOCK GENERATOR 16TSSOP

Clock Generator IC 2.8GHz 1 16-TSSOP (0.173", 4.40 mm Width)

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC100LVEP34DTG	onsemi
Series:	Product Status:
100LVEP	Active
DiGi-Electronics Programmable:	Туре:
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	MC100

Environmental & Export classification

RoHS Status:	Moisture S
ROHS3 Compliant	1 (Unlimite
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

Moisture Sensitivity Level (MSL): 1 (Unlimited) ECCN: EAR99

onsemi

2.5 V/3.3 V ECL ÷2, ÷4, ÷8 Clock Generation Chip MC100LVEP34

Description

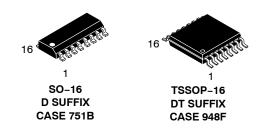
The MC100LVEP34 is a low skew $\div 2$, $\div 4$, $\div 8$ clock generation chip designed explicitly for low skew clock generation applications. The internal dividers are synchronous to each other, therefore, the common output edges are all precisely aligned. The V_{BB} pin, an internally generated voltage 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 µF capacitor and limit current sourcing or sinking to 0.5 mA. When not used, V_{BB} should be left open.

The common enable $(\overline{\text{EN}})$ 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.

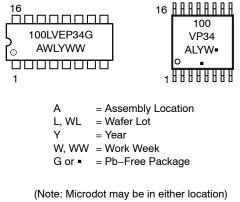
Upon start-up, the internal flip-flops will attain a random state; the master reset (MR) input allows for the synchronization of the internal dividers, as well as multiple LVEP34s in a system. Single-ended CLK input operation is limited to a $V_{CC} \ge 3.0$ V in PECL mode, or $V_{EE} \le -3.0$ V in 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: $V_{CC} = 0 V$ with $V_{EE} = -2.375 V$ 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*

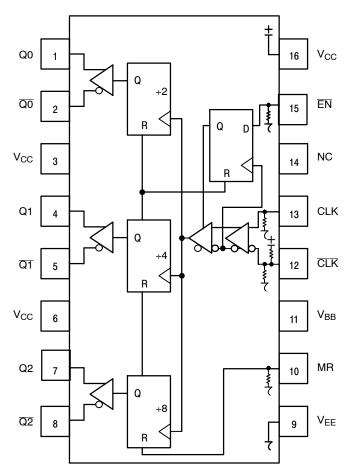


*For additional marking information, refer to Application Note <u>AND8002/D</u>.

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, <u>BRD8011/D</u>.



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

Table 1. PIN DESCRIPTION

Pin	Function
CLK*, CLK**	ECL Diff Clock Inputs
EN*	ECL Sync Enable
MR*	ECL Master Reset
Q0, <u>Q0</u>	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

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

Table 2. FUNCTION TABLE

CLK	EN	MR	FUNCTION
Z ZZ X	LHX		Divide Hold Q _{0–3} Reset Q _{0–3}

Z = Low-to-High Transition

ZZ = High-to-Low Transition

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
I _{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
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	SOIC-16 SOIC-16	100 60	°C/W °C/W
θ_{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-16	33 to 36	°C/W
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	TSSOP-16 TSSOP-16	138 108	°C/W °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.

-40°C 85°C 25°C Min Min Min Symbol Characteristic Тур Max Тур Max Тур Max Unit IFF Power Supply Current 40 50 60 40 50 60 42 52 62 mΑ mV V_{OH} Output HIGH Voltage (Note 3) 1355 1480 1605 1355 1480 1605 1355 1480 1605 Output LOW Voltage (Note 3) 505 680 900 505 680 900 505 680 900 mV VOL VIH Input HIGH Voltage (Single-Ended) 1335 1620 1335 1620 1275 1620 mV (Note 4) VIL Input LOW Voltage (Single-Ended) 505 900 505 900 505 900 mV (Note 4) Input HIGH Voltage Common Mode V VIHCMR 1.2 3.3 1.2 3.3 1.2 3.3 Range (Differential) (Note 4, Note 5) Ι_Η Input HIGH Current 150 150 150 μA Input LOW Current Ι_{ΙL} μΑ D 0.5 0.5 0.5 D -150 -150 -150

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

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.

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

3. All loading with 50 Ω to V_{CC} – 2.0 V.

4. 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.

5. VIHCMR min varies 1:1 with VEE, VIHCMR max varies 1:1 with VCC. The VIHCMR 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
VIHCMR	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	μA
Ι _{ΙL}	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.

All loading with 50 Ω to V_{CC} – 2.0 V. 7.

8. Single–Ended input CLK pin operation is limited to $V_{CC} \ge 3.0 \text{ V}$ in PECL mode. 9. 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.

MC100LVEP34DTG onsemi IC CLOCK GENERATOR 16TSSOP

MC100LVEP34

Table 7. 100EP DC CHARACTERISTICS, NECL $V_{CC} = 0 V$, $V_{EE} = -3.8 V$ 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
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 13)	V _{EE} ·	+1.2	0.0	V _{EE}	+1.2	0.0	V _{EE}	+1.2	0.0	V
I _{IH}	Input HIGH Current			150			150			150	μA
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.

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} ≤ –3.0 V in NECL mode.

13. VIHCMR min varies 1:1 with VEE, VIHCMR max varies 1:1 with VCC. The VIHCMR range is referenced to the most positive side of the differential input signal.

Table 8. AC CHARACTERISTICS V _{CC}	= 0 V; V _{EE} = -3.8 V to -2.375 V or V ₀	_{CC} = 2.375 V to 3.8 V; V _{EE} = 0 V (Note 14)
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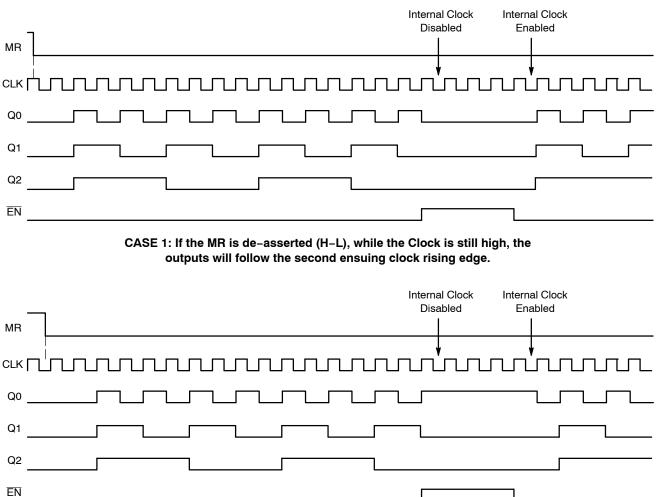
			–40°C			25°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Toggle Frequency (See Figure 4. F _{max})	2.8			2.8			2.8			GHz
t _{PLH} t _{PHL}	Propagation CLK to Q0, Q1, Q2 Delay to Output MR to Q	550 500	650 600	750 700	600 550	700 650	800 750	650 600	750 700	850 800	ps
t _{JITTER}	$\begin{array}{ll} \text{RMS Clock Jitter} & \text{DIV2} \leq 2.5 \ \text{GHz} \\ (\text{See Figure 4. F}_{\text{max}}/\text{JITTER}) & \text{DIV2} \leq 3.0 \ \text{GHz} \\ & \text{DIV4} \leq 2.5 \ \text{GHz} \\ & \text{DIV4} \leq 3.0 \ \text{GHz} \\ & \text{DIV8} \leq 2.5 \ \text{GHz} \\ & \text{DIV8} \leq 3.0 \ \text{GHz} \\ \end{array}$		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.

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 ≈40.

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.

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



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.

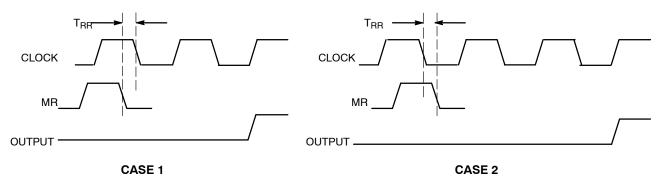
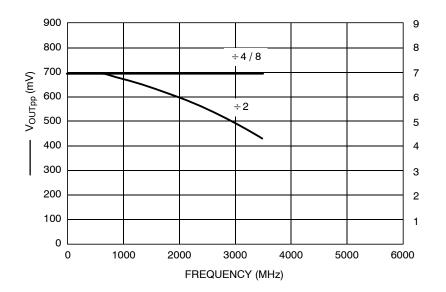


Figure 3. Reset Recovery Time







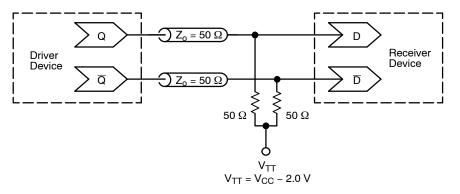


Figure 5. Typical Termination for Output Driver and Device Evaluation (See Application Note <u>AND8020/D</u> – Termination of ECL Logic Devices.)

Resource Reference of Application Notes

- AN1405/D-ECL Clock Distribution TechniquesAN1406/D-Designing with PECL (ECL at +5.0 V)AN1503/D-ECLinPS™ I/O SPiCE Modeling KitAN1504/D-Metastability and the ECLinPS Family
- AN1568/D Interfacing Between LVDS and ECL
- AN1672/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

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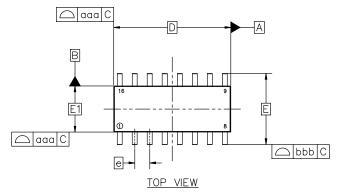
PACKAGE DIMENSIONS

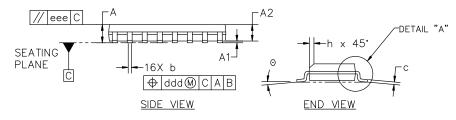
SOIC-16 9.90x3.90x1.37 1.27P CASE 751B **ISSUE M**

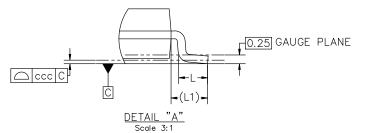
DATE 18 OCT 2024

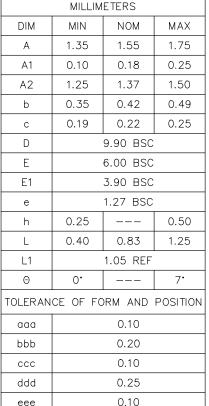
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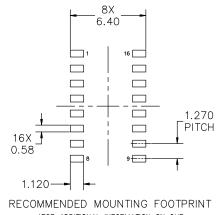
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018. 1.
- DIMENSION IN MILLIMETERS. ANGLE IN DEGREES. 2.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE. 4.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE 5 DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE **b** DIMENSION AT MAXIMUM MATERIAL CONDITION.











*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*

16	A	H	A.	- A	R	A	A	Æ
		XX)	XX	X	XX	XX	XX	G
		XX	XX)	XX	XX	XX)	XX	x
	0		A١	NĽ	YW	/W		
1	H	Н	Н	Н	Н	H	H	Ъ

XXXXX = Specific Device Code

= Assembly Location

- WL = Wafer Lot
- Y = Year

А

- 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 1:		STYLE 2:		STYLE 3:		TYLE 4:	
PIN 1.	COLLECTOR	PIN 1.	CATHODE	PIN 1.	COLLECTOR, DYE #1	PIN 1.	COLLECTOR, DYE #1
2.		2.	ANODE	2.		2.	
2.	EMITTER	2.	NO CONNECTION	2.	EMITTER, #1	2.	
3. 4.	NO CONNECTION	J. 4.	CATHODE	3. 4.	,	3. 4.	
4. 5.	EMITTER	4. 5.	CATHODE	4. 5.	COLLECTOR, #1	4. 5.	
5. 6.	BASE	J. 6.	NO CONNECTION	5. 6.	BASE, #2	5. 6.	, .
0. 7.	COLLECTOR	0. 7.		0. 7.		0. 7.	
7.	COLLECTOR	7.			COLLECTOR, #2	7. 8.	
•••	BASE	o. 9.	CATHODE		COLLECTOR, #2 COLLECTOR, #3	o. 9.	
	EMITTER	•••	ANODE		BASE. #3		EMITTER. #4
	NO CONNECTION	10.			EMITTER, #3		BASE, #3
	EMITTER		CATHODE		COLLECTOR. #3		EMITTER, #3
	BASE		CATHODE		COLLECTOR, #3		BASE, #2
	COLLECTOR		NO CONNECTION		BASE, #4		EMITTER, #2
	EMITTER		ANODE		EMITTER. #4	14.	
	COLLECTOR	15.	CATHODE		COLLECTOR, #4	16.	- ,
10.	COLLECTOR	10.	CATHODE	10.	COLLECTOR, #4	10.	EIVITTEN, #T
STYLE 5:		STYLE 6:	0.17110055	STYLE 7:			
PIN 1.	DRAIN, DYE #1	PIN 1.	CATHODE	PIN 1.	SOURCE N-CH		
2.	DRAIN, #1	2.	CATHODE	2.			
3.	DRAIN, #2	3.	CATHODE	3.			
4.	DRAIN, #2	4.			GATE P-CH		
5.	DRAIN, #3	5.	CATHODE	5.	COMMON DRAIN (OUTPUT)		
6.	DRAIN, #3	6.	CATHODE	6.			
7.	DRAIN, #4	7.	CATHODE	7.	COMMON DRAIN (OUTPUT)		
8.	DRAIN, #4	8.	CATHODE	8.			
9.	GATE, #4	9.	ANODE	9.	••••		
10.	SOURCE, #4	10.	ANODE	10.			
11.	GATE, #3	11.	ANODE	11.			
12.	SOURCE, #3	12.		12.			
13.	GATE, #2		ANODE		GATE N-CH		
14.	SOURCE, #2		ANODE	14.			
15.	GATE, #1	15.	ANODE	15.	COMMON DRAIN (OUTPUT)		
16.	SOURCE, #1	16.	ANODE	16.	SOURCE N-CH		

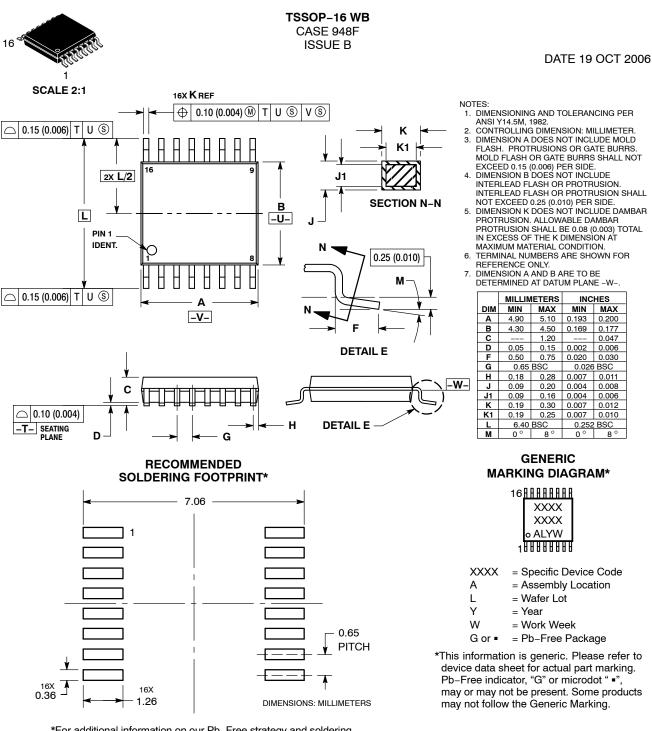
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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



*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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