

2.5 V/3.3 V Quad Differential Driver/Receiver

NB100LVEP17

Description

The NB100LVEP17 is a 4-bit differential line receiver. The design incorporates two stages of gain, internal to the device, making it an excellent choice for use in high bandwidth amplifier applications.

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.

Inputs of unused gates can be left open and will not affect the operation of the rest of the device.

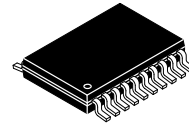
Features

- Maximum Input Clock Frequency > 2.5 GHz Typical
- Maximum Input Data Rate > 2.5 Gb/s Typical
- 250 ps Typical Propagation Delay
- Low Profile QFN Package
- 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
- Q Output Will Default LOW with Inputs Open or at V_{EE}
- V_{BB} Output
- These Devices are Pb-Free, Halogen Free and RoHS Compliant

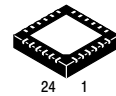


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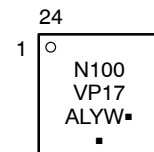
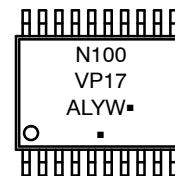


TSSOP-20
DT SUFFIX
CASE 948E



24 PIN QFN
MN SUFFIX
CASE 485L

MARKING DIAGRAMS*



A = Assembly Location
L = Wafer Lot
Y = Year
W = Work Week
■ = Pb-Free Package

(Note: Microdot may be in either location)

*For additional marking information, refer to Application Note [AND8002/D](#).

ORDERING INFORMATION

Device	Package	Shipping†
NB100LVEP17DTR2G	TSSOP-20 (Pb-Free)	2500 / Tape & Reel
NB100LVEP17MNG	QFN-24 (Pb-Free)	92 Units / Tube
NB100LVEP17MNR2G	QFN-24 (Pb-Free)	3000 / Tape & Reel

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

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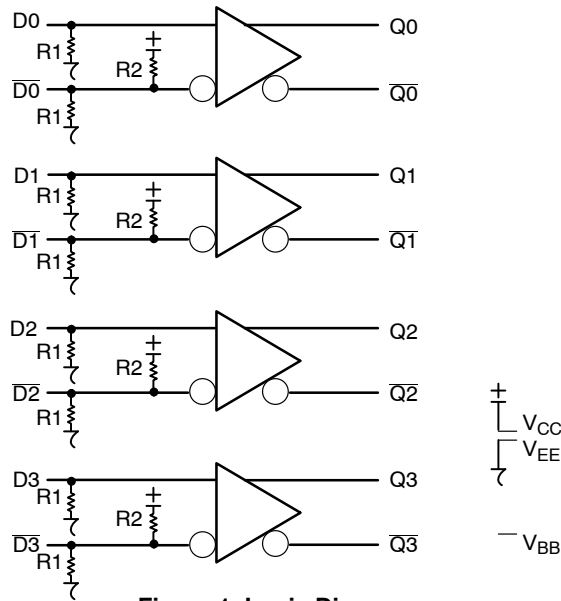


Figure 1. Logic Diagram

Table 1. PIN DESCRIPTION

Pin		Name	I/O	Default State	Description
TSSOP	QFN				
1,20	13,18,21,22,23	V _{CC}	–	–	Positive Supply Voltage. All V _{CC} Pins Must be Externally Connected to Power Supply to Guarantee Proper Operation.
11	10	V _{EE}	–	–	Negative Supply Voltage. All V _{EE} Pins Must be Externally Connected to Power Supply to Guarantee Proper Operation.
10	9	V _{BB}	–	–	ECL Reference Voltage Output.
2,4,6,8	1,3,5,7	D[0:3]	ECL Input	Low	Noninverted Differential Inputs [0:3]. Internal 75 kΩ to V _{EE} .
3,5,7,9	2,4,6,8	D̄[0:3]	ECL Input	High	Inverted Differential Inputs [0:3]. Internal 75 kΩ to V _{EE} and 37 kΩ to V _{CC} .
19,17,15,13	12,15,17,20	Q[0:3]	ECL Output	–	Noninverted Differential Outputs [0:3]. Typically Terminated with 50 Ω to V _{TT} = V _{CC} – 2 V.
18,16,14,12	11,14,16,19	Q̄[0:3]	ECL Output	–	Inverted Differential Outputs [0:3]. Typically Terminated with 50 Ω to V _{TT} = V _{CC} – 2 V.
N/A	24	NC	–	–	No Connect. The NC Pin is Electrically Connected to the Die and “MUST BE” Left Open.
N/A	–	EP	–	–	Exposed Pad. (Note 1)

1. All V_{CC} and V_{EE} pins must be externally connected to Power Supply to guarantee proper operation. The thermally conductive expose pad on the package bottom (see case drawing) must be attached to a heat-sinking conduit.

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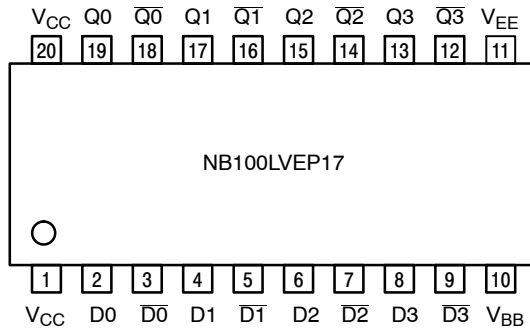


Figure 2. TSSOP-20 Lead Pinout (Top View)

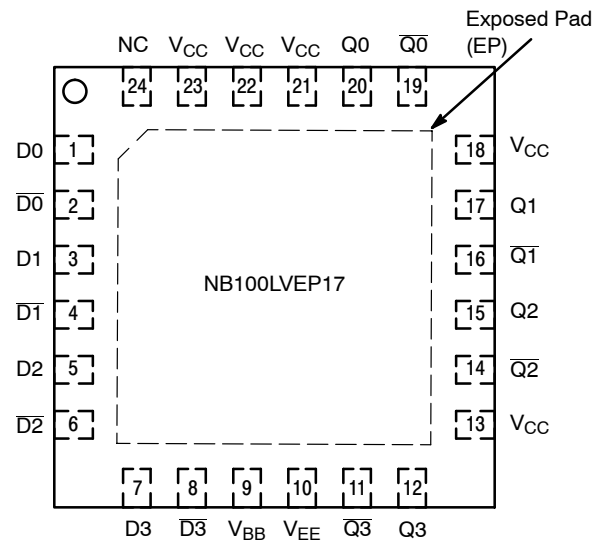


Figure 3. QFN-24 Lead Pinout (Top View)

Table 2. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor (R1)	75 kΩ
Internal Input Pullup Resistor (R2)	37 kΩ
ESD Protection Human Body Model Machine Model Charged Device Model	> 2 kV > 150 V > 2 kV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 1)	Pb-Free Pkg
TSSOP-20 QFN-24	Level 1 Level 1
Flammability Rating Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in
Transistor Count	274 Devices
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	

1. For additional information, see Application Note [AND8003/D](#).

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Table 3. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V _{CC}	Positive Mode Power Supply	V _{EE} = 0 V		6	V
V _{EE}	Negative Mode Power Supply	V _{CC} = 0 V		–6	V
V _I	Positive Mode Input Voltage Negative Mode Input Voltage	V _{EE} = 0 V V _{CC} = 0 V	V _I ≤ V _{CC} V _I ≥ 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) JEDEC 51–3 (1S – Single Layer Test Board)	0 lfpm 500 lfpm	20 TSSOP 20 TSSOP	140 50	°C/W °C/W
θ _{JA}	Thermal Resistance (Junction–to–Ambient) JEDEC 51–6 (2S2P Multilayer Test Board) with Filled Thermal Vias	0 lfpm 500 lfpm	24 QFN 24 QFN	37 32	°C/W °C/W
θ _{JC}	Thermal Resistance (Junction–to–Case)	Standard Board	20 TSSOP 24 QFN	23 to 41 11	°C/W °C/W
T _{sol}	Wave Solder (Pb–Free)			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 4. DC CHARACTERISTICS, PECL V_{CC} = 2.5 V; V_{EE} = 0 V (Note 2)

Symbol	Characteristic	–40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
I _{EE}	Negative Power Supply Current	30	40	50	30	40	50	30	40	55	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	775	900	505	775	900	505	775	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		875	505		875	505		875	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 5)	1.2		2.5	1.2		2.5	1.2		2.5	V
I _{IH}	Input HIGH Current (@ V _{IH})			150			150			150	μA
I _{IL}	Input LOW Current (@ V _{IL})	D D	0.5 –150		0.5 –150			0.5 –150			μA

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}. V_{EE} can vary –0.125 V to +1.3 V.
- All loading with 50 Ω to V_{EE} = V_{CC} – 2.0 V.
- Do not use V_{BB} at V_{CC} < 3.0 V.
- 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.

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Table 5. DC CHARACTERISTICS, PECL $V_{CC} = 3.3\text{ V}$; $V_{EE} = 0\text{ V}$ (Note 6)

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
I_{EE}	Negative Power Supply Current	30	40	50	30	40	50	30	40	55	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	1575	1700	1305	1575	1700	1305	1575	1700	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	2135		2420	2135		2420	2135		2420	mV
V_{IL}	Input LOW Voltage (Single-Ended)	1305		1675	1305		1675	1305		1675	mV
V_{BB}	ECL Output Reference Voltage (Note 8)	1775	1875	1975	1775	1875	1975	1775	1875	1975	mV
V_{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 9)	1.2		3.3	1.2		3.3	1.2		3.3	V
I_{IH}	Input HIGH Current (@ V_{IH})			150			150			150	μA
I_{IL}	Input LOW Current (@ V_{IL})	D D	0.5 -150		0.5 -150			0.5 -150			μA

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 + 0.5 V to -0.3 V.

7. All loading with 50 Ω to $V_{CC} - 2.0\text{ V}$.

8. Single ended input operation is limited $V_{CC} \geq 3.0\text{ V}$ 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.

Table 6. DC CHARACTERISTICS, NECL $V_{CC} = 0\text{ V}$, $V_{EE} = -2.375\text{ V}$ to -3.8 V (Note 10)

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
I_{EE}	Negative Power Supply Current	30	40	50	30	40	50	30	40	55	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	-1725	-1600	-1995	-1725	-1600	-1995	-1725	-1600	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	-1165		-880	-1165		-880	-1165		-880	mV
V_{IL}	Input LOW Voltage (Single-Ended)	-1995		-1600	-1995		-1600	-1995		-1600	mV
V_{BB}	ECL Output Reference Voltage (Note 12)	-1525	-1425	-1325	-1525	-1425	-1325	-1525	-1425	-1325	mV
V_{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (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 (@ V_{IH})			150			150			150	μA
I_{IL}	Input LOW Current (@ V_{IL})	D D	0.5 -150		0.5 -150			0.5 -150			μA

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 $V_{CC} - 2.0\text{ V}$.

12. Single ended input operation is limited $V_{EE} \leq -3.0\text{ V}$ 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 input signal.

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Table 7. AC CHARACTERISTICS $V_{CC} = 0\text{ V}$; $V_{EE} = -2.375\text{ V}$ to -3.8 V or $V_{CC} = 2.375\text{ V}$ to 3.8 V ; $V_{EE} = 0\text{ V}$ (Note 14)

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
V_{OUTPP}	Output Voltage Amplitude (See Figures 4, 5) $f_{in} < 1\text{ GHz}$ $f_{in} = 2\text{ GHz}$ $f_{in} = 2.5\text{ GHz}$	600 400 300	700 500 400		600 325 250	700 500 400		550 300 200	700 500 400		mV
t_{PLH} , t_{PHL}	Propagation Delay to Output Differential D to Q, \bar{Q}	200	250	325	200	250	325	225	300	350	ps
t_{Skew}	Pulse Skew (Note 15) Within Device Skew (Note 17) Device-to-Device Skew (Note 17)		5 5 25	25 25 100		5 5 25	25 25 100		5 5 25	25 25 100	ps
t_{JITTER}	RMS Random Clock Jitter (Note 18) $f_{in} = 2.5\text{ GHz}$ Peak-to-Peak Data Dependent Jitter $f_{in} = 1.5\text{ Gb/s}$ (Note 19) $f_{in} = 2.5\text{ Gb/s}$		0.5 5 5	1 15 15		0.5 5 5	1 15 15		0.5 5 5	1 15 15	ps
V_{INPP}	Input Voltage Swing (Differential Configuration) (Note 20)	150	800	1200	150	800	1200	150	800	1200	mV
t_r , t_f	Output Rise/Fall Times @ 50 MHz Q, \bar{Q} (20% – 80%)	125	175	225	140	190	240	150	200	250	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 lfm.

14. Measured using a 750 mV source, 50% duty cycle clock source. All loading with $50\ \Omega$ to $V_{CC} - 2.0\text{ V}$. Input edge rates 150 ps (20% – 80%).

15. Pulse Skew = $|t_{PLH} - t_{PHL}|$

16. Worst case difference between Q0 and Q1 outputs.

17. Skew is measured between outputs under identical transitions.

18. Additive RMS jitter with 50% Duty Cycle Clock Signal at 2.5 GHz.

19. Peak-to-Peak jitter with input NRZ data at PRBS $2^{31}-1$ at 2.5 Gb/s with all inputs active.

20. Input voltage swing is a single-ended measurement operating in differential mode, with minimum propagation change of 50 ps.

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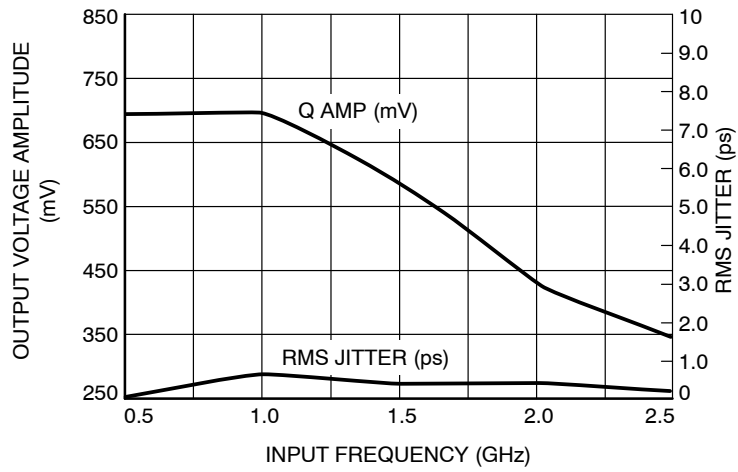


Figure 4. Output Voltage Amplitude (V_{OUTPP}) / RMS Jitter vs. Input Frequency (f_{in}) at $V_{CC} = 2.5$ V, Ambient Temperature

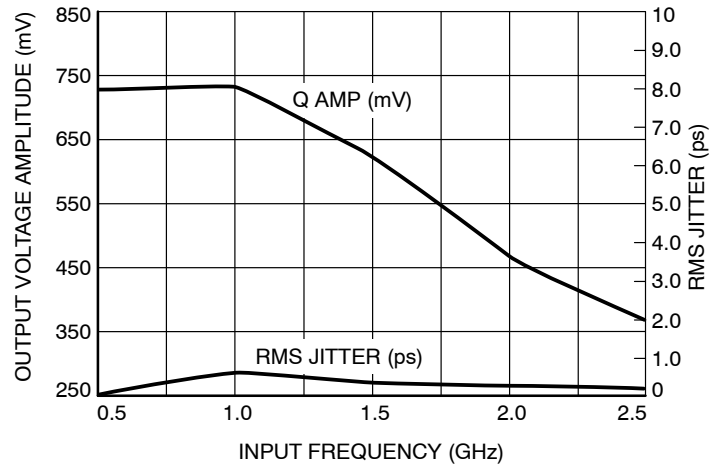


Figure 5. Output Voltage Amplitude (V_{OUTPP}) / RMS Jitter vs. Input Frequency (f_{in}) at $V_{CC} = 3.3$ V, Ambient Temperature

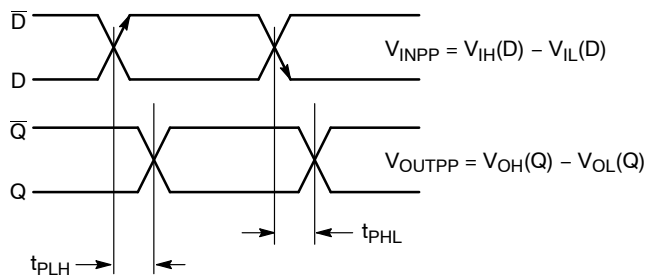


Figure 6. AC Reference Measurement

NB100LVEP17

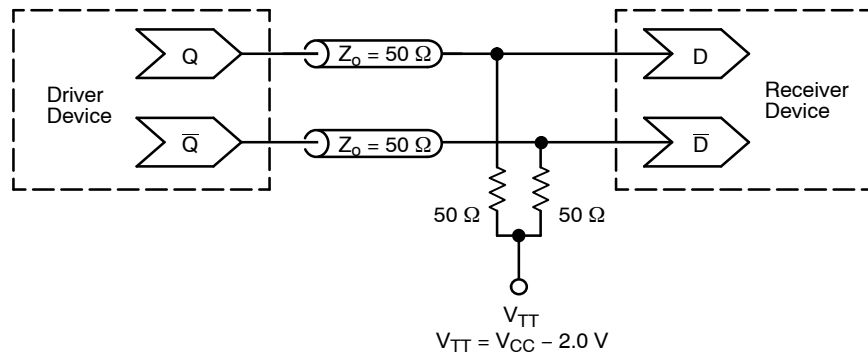


Figure 7. Typical Termination for Output Driver and Device Evaluation
(See Application Note [AND8020/D](#) – Termination of ECL Logic Devices.)

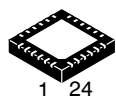
Resource Reference of Application Notes

- 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
- 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

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

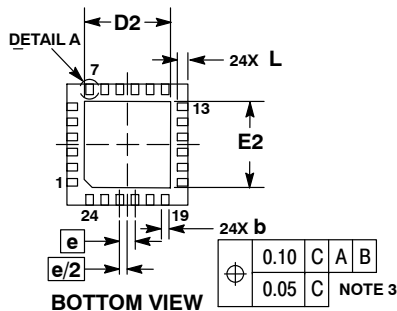
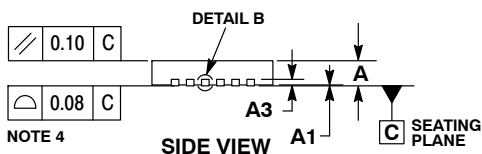
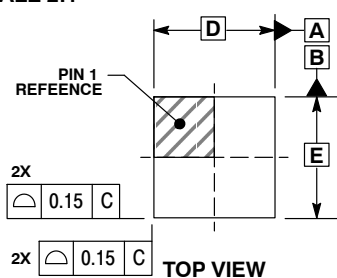
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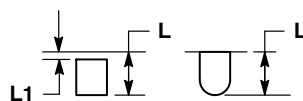
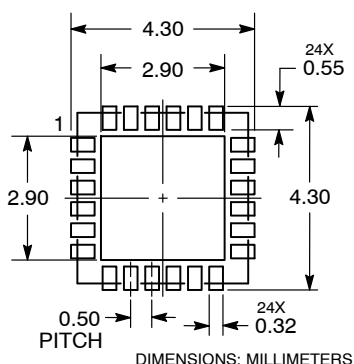
SCALE 2:1

QFN24, 4x4, 0.5P
CASE 485L
ISSUE B

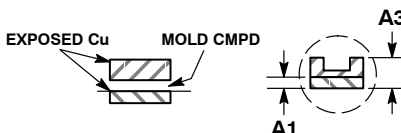
DATE 05 JUN 2012



RECOMMENDED SOLDERING FOOTPRINT



DETAIL A
ALTERNATE
CONSTRUCTIONS



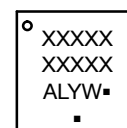
DETAIL B
ALTERNATE TERMINAL
CONSTRUCTIONS

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.25 AND 0.30 MM FROM THE TERMINAL TIP.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

DIM	MILLIMETERS	
	MIN	MAX
A	0.80	1.00
A1	0.00	0.05
A3	0.20	REF
b	0.20	0.30
D	4.00	BSC
D2	2.70	2.90
E	4.00	BSC
E2	2.70	2.90
e	0.50	BSC
L	0.30	0.50
L1	0.05	0.15

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code
A = Assembly Location
L = Wafer Lot
Y = Year
W = Work Week
▪ = Pb-Free Package

(Note: Microdot may be in either location)

*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.

DOCUMENT NUMBER:	98AON11783D	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
DESCRIPTION:	QFN24, 4X4, 0.5P	PAGE 1 OF 1

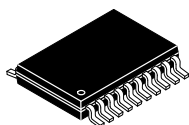
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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

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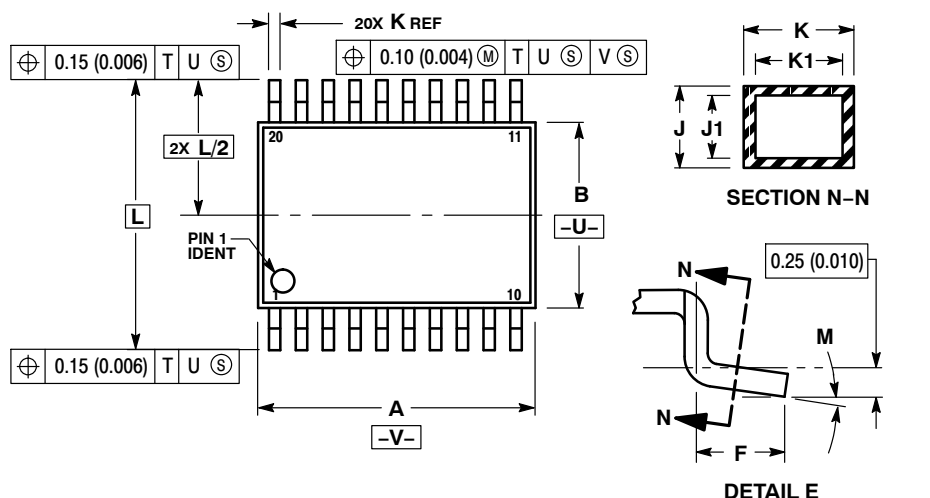
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SCALE 2:1

TSSOP-20 WB
CASE 948E
ISSUE D

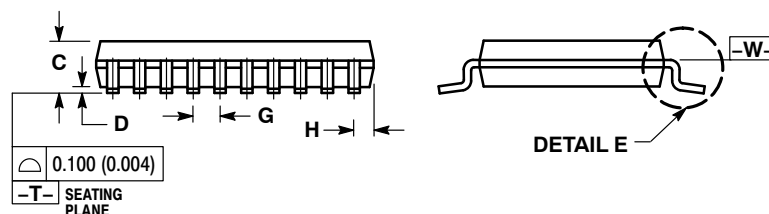
DATE 17 FEB 2016



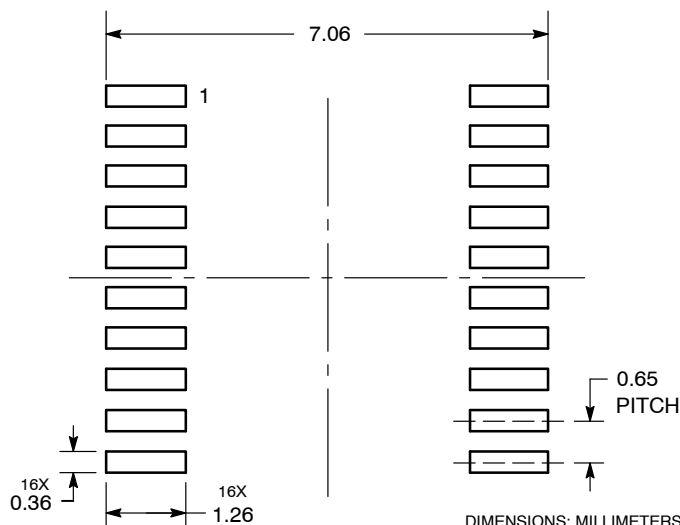
NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. 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.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
5. 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.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

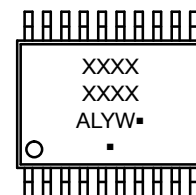
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	6.40	6.60	0.252	0.260
B	4.30	4.50	0.169	0.177
C	---	1.20	---	0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
H	0.27	0.37	0.011	0.015
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40 BSC		0.252 BSC	
M	0°	8°	0°	8°



SOLDERING FOOTPRINT



GENERIC MARKING DIAGRAM*



- A = Assembly Location
- L = Wafer Lot
- Y = Year
- W = Work Week
- = Pb-Free Package

(Note: Microdot may be in either location)

*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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