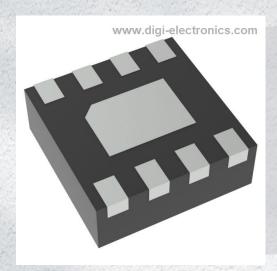


MC100LVEL11MNR4G Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number MC100LVEL11MNR4G-DG

Manufacturer onsemi

Manufacturer Product Number MC100LVEL11MNR4G

Description IC CLK BUFFER 1:2 1GHZ 8DFN

Detailed Description Clock Fanout Buffer (Distribution) IC 1:2 1 GHz 8-VF

DFN Exposed Pad



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:
MC100LVEL11MNR4G	onsemi
Series:	Product Status:
100LVEL	Active
Type:	Number of Circuits:
Fanout Buffer (Distribution)	1
Ratio - Input:Output:	Differential - Input:Output:
1:2	Yes/Yes
Input:	Output:
ECL, PECL	ECL, PECL
Frequency - Max:	Voltage - Supply:
1 GHz	3V ~ 3.8V
Operating Temperature:	Mounting Type:
-40°C ~ 85°C	Surface Mount
Package / Case:	Supplier Device Package:
8-VFDFN Exposed Pad	8-DFN (2x2)
Base Product Number:	
MC100	

Environmental & Export classification

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

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3.3V ECL 1:2 Differential Fanout Buffer MC100LVEL11

Description

The MC100LVEL11 is a differential 1:2 fanout buffer. The device is functionally similar to the E111 device but with higher performance capabilities. Having within-device skews and output transition times significantly improved over the E111, the LVEL11 is ideally suited for those applications which require the ultimate in AC performance.

The differential inputs of the LVEL11 employ clamping circuitry to maintain stability under open input conditions. If the inputs are left open (pulled to $V_{\rm EE}$) the Q outputs will go LOW.

Features

- 330 ps Propagation Delay
- 5 ps Skew Between Outputs
- High Bandwidth Output Transitions
- The 100 Series Contains Temperature Compensation
- PECL Mode Operating Range: V_{CC} = 3.0 V to 3.8 V with V_{EE} = 0 V
- NECL Mode Operating Range: $V_{CC} = 0 \text{ V}$ with $V_{EE} = -3.0 \text{ V}$ to -3.8 V
- Internal Input Pulldown Resistors on D, Pullup and Pulldown Resistors on D
- Q Output will Default LOW with Inputs Open or at V_{EE}
- These Devices are Pb-Free and are RoHS Compliant

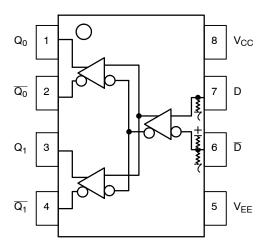


Figure 1. Logic Diagram and Pinout Assignment







SOIC-8 D SUFFIX CASE 751

TSSOP-8 DT SUFFIX CASE 948R

DFN8 MN SUFFIX CASE 506AA

MARKING DIAGRAMS







A = Assembly Location

L = Wafer Lot

Y = Year

W = Work Week

M = Date Code

= 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 [†]
MC100LVEL11DG	SOIC-8 (Pb-Free)	98 Units/Tube
MC100LVEL11DR2G	SOIC-8 (Pb-Free)	2500/Tape & Reel
MC100LVEL11DTG	TSSOP-8 (Pb-Free)	100 Units/Tube
MC100LVEL11DTR2G	TSSOP-8 (Pb-Free)	2500/Tape & Reel
MC100LVEL11MNR4G	DFN8 (Pb-Free)	1000/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.

MC100LVEL11

Table 1. PIN DESCRIPTION

Pin	Function
Q0, Q0 ; Q1, Q1	ECL Data Outputs
D, \overline{D}	ECL Data Inputs
V _{CC}	Positive Supply
V _{EE}	Negative Supply
EP	(DFN8 only) Thermal exposed pad must be connected to a sufficient thermal conduit. Electrically connect to the most negative supply (GND) or leave unconnected, floating open.

Table 2. ATTRIBUTES

Characteri	Value					
Internal Input Pulldown Resistor		75 kΩ				
Internal Input Pullup Resistor		75 kΩ				
ESD Protection	Human Body Model Machine Model Charge Device Model	> 4 KV > 400 V > 2 kV				
Moisture Sensitivity, Indefinite Time	Out of Drypack (Note 1) SOIC-8 TSSOP-8 DFN8	Level 1 Level 3 Level 1				
Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in				
Transistor Count		63				
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latchup Test						

^{1.} For additional information, see Application Note AND8003/D.

Table 3. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Units
V _{CC}	PECL Mode Power Supply	V _{EE} = 0 V		8 to 0	V
V _{EE}	NECL Mode Power Supply	V _{CC} = 0 V		-8 to 0	V
VI	PECL Mode Input Voltage NECL Mode Input Voltage	V _{EE} = 0 V V _{CC} = 0 V	$\begin{array}{c} V_{I}\!\leq\!V_{CC} \\ V_{I}\!\geq\!V_{EE} \end{array}$	6 to 0 -6 to 0	V
l _{out}	Output Current	Continuous Surge		50 100	mA mA
T _A	Operating Temperature Range			-40 to +95	°C
T _{stg}	Storage Temperature Range			-65 to +150	°C
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lpfm 500 lpfm	SOIC-8 SOIC-8	190 130	°C/W °C/W
θЈС	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8	41 to 44 ± 5%	°C/W
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lpfm 500 lpfm	TSSOP-8 TSSOP-8	185 140	°C/W
θ_{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	TSSOP-8	41 to 44 ± 5%	°C/W
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	DFN8 DFN8	129 84	°C/W °C/W
T _{sol}	Wave Solder Pb-Free	<2 to 3 sec @ 260°C		265	°C
θЈС	Thermal Resistance (Junction-to-Case)	(Note 2)	DFN8	35 to 40	°C/W

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.

2. JEDEC standard multilayer board – 2S2P (2 signal, 2 power)

MC100LVEL11

Table 4. LVPECL DC CHARACTERISTICS V_{CC} = 3.3 V; V_{EE} = 0.0 V (Note 3)

			-40°C			25°C		95°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		24	28		24	28		25	30	mA
V _{OH}	Output HIGH Voltage (Note 4)	2215	2295	2420	2275	2345	2420	2275	2345	2420	mV
V _{OL}	Output LOW Voltage (Note 4)		1605	1745	1490	1595	1680	1490	1595	1680	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	2135		2420	2135		2420	2135		2420	mV
V_{IL}	Input LOW Voltage (Single-Ended)	1490		1825	1490		1825	1490		1825	mV
VIHCMR	Input HIGH Voltage Common Mode Range (Differential) (Note 8) $V_{pp} < 500 \text{ mV} \\ V_{pp} \geqq 500 \text{ mV}$	1.2 1.4		3.1 3.1	1.1		3.1 3.1	1.1		3.1 3.1	v v
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D D	0.5 -600			0.5 -600			0.5 -600			μ Α μ Α

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.

- 3. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary ± 0.3 V. 4. Outputs are terminated through a 50 Ω resistor to V_{CC} 2.0 V.
- 5. V_{IHCMR} min varies 1:1 with V_{EE} , max varies 1:1 with V_{CC} . The V_{IHCMR} range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V_{PP}min and 1.0 V.

Table 5. LVNECL DC CHARACTERISTICS $V_{CC} = 0.0 \text{ V}$; $V_{EE} = -3.3 \text{ V}$ (Note 6)

			-40°C			25°C			95°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		24	28		24	28		25	30	mA
V _{OH}	Output HIGH Voltage (Note 7)	-1085	-1005	-880	-1025	-955	-880	-1025	-955	-880	mV
V _{OL}	Output LOW Voltage (Note 7)	-1830	-1695	-1555	-1810	-1705	-1620	-1810	-1705	-1620	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	-1165		-880	-1165		-880	-1165		-880	mV
V _{IL}	Input LOW Voltage (Single-Ended)	-1810		-1475	-1810		-1475	-1810		-1475	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 8) $V_{pp} < 500 \text{ mV} \\ V_{pp} \geqq 500 \text{ mV}$	-2.1 -1.9		-0.2 -0.2	-2.2 -2.0		-0.2 -0.2	-2.2 -2.0		-0.2 -0.2	V
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D	0.5 -600			0.5 -600			0.5 -600			μ Α μ Α

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 ± 0.3 V.
- Outputs are terminated through a 50 \(\Omega\) resistor to \(\V_{CC}\) 2.0 \(\V_{CM}\)
 V_{IHCMR} min varies 1:1 with \(\V_{EE}\), max varies 1:1 with \(\V_{CC}\). The \(\V_{IHCMR}\) range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between \(\V_{PP}\)min and 1.0 \(\V_{CC}\).

MC100LVEL11

Table 6. AC CHARACTERISTICS $V_{CC} = 3.3 \text{ V}$; $V_{EE} = 0.0 \text{ V}$ or $V_{CC} = 0.0 \text{ V}$; $V_{EE} = -3.3 \text{ V}$ (Note 9)

		-40°C		25°C			95°C				
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Toggle Frequency					1.0					GHz
t _{PLH} t _{PHL}	Propagation Delay to Output	235		385	255	330	405	285		435	ps
t _{SKEW}	Within-Device Skew (Note 10) Device-to-Device (Note 11) Duty Cycle Skew (Note 12)		5 10	20 150 20		5 10	20 150 20		5 10	20 150 20	ps
t _{JITTER}	Random Clock Jitter (RMS)					0.6					ps
V_{PP}	Input Swing (Note 13)	200		1000	200		1000	200		1000	mV
t _r t _f	Output Rise/Fall Times Q (20% – 80%)	120		320	120	220	320	120		320	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.

- 9. VEE can vary ±0.3 V.
- 10. Within-device skew defined as identical transitions on similar paths through a device.
- 11. Device–to–device skew for identical transitions at identical $\dot{V_{CC}}$ levels.
- 12. Duty cycle skew is the difference between a t_{PLH} and t_{PHL} propagation delay through a device.

 13. V_{PP}(min) is the minimum input swing for which AC parameters guaranteed. The device will function properly with input swings below 200 mV, however, AC delays may move outside of the specified range. The device has a DC gain of ≈40.

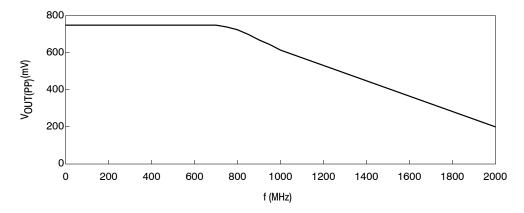


Figure 2. Output Swing versus Frequency

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

Termination of ECL Logic Devices AND8020/D

AND8066/D Interfacing with ECLinPS

AND8090/D - AC Characteristics of ECL Devices

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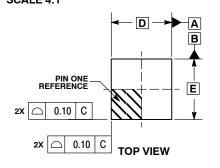


MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



DATE 04 MAY 2016



DETAIL B

SIDE VIEW

+D2 →

(A3)

SEATING PLANE

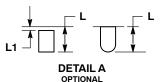
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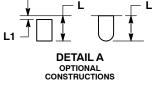
0.10 С

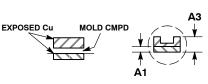
0.08 С

DETAIL A

NOTE 4







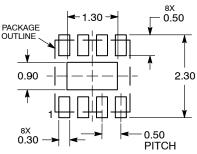
DETAIL B ALTERNATE CONSTRUCTIONS

NOTES

- DIMENSIONING AND TOLERANCING PER
- ASME Y14.5M, 1994 . CONTROLLING DIMENSION: MILLIMETERS. DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP. COPLANARITY APPLIES TO THE EXPOSED
- PAD AS WELL AS THE TERMINALS.

	MILLIMETERS						
DIM	MIN	MAX					
Α	0.80	1.00					
A 1	0.00	0.05					
АЗ	0.20	0.20 REF					
b	0.20	0.30					
D	2.00	2.00 BSC					
D2	1.10	1.30					
Е	2.00	BSC					
E2	0.70	0.90					
е	0.50	BSC					
K	0.30	0.30 REF					
L	0.25	0.35					
L1		0.10					

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

0.10 CAB Ф е С 0.05 NOTE 3 **BOTTOM VIEW**

GENERIC MARKING DIAGRAM*



XX = Specific Device Code

= Date Code

= Pb-Free Device

*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.

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

DOCUMENT NUMBER:	98AON18658D	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED"			
DESCRIPTION:	DFN8, 2.0X2.0, 0.5MM PITO	CH	PAGE 1 OF 1		

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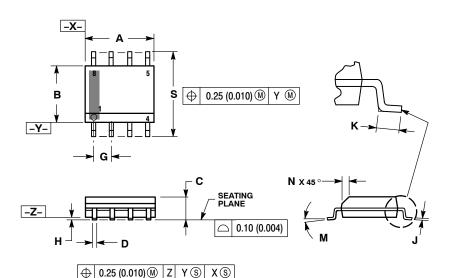
MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



SOIC-8 NB CASE 751-07 **ISSUE AK**

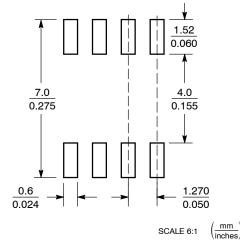
DATE 16 FEB 2011



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- 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.
- 751-01 THRU 751-06 ARE OBSOLETE. NEW STANDARD IS 751-07.

	MILLIMETERS		INC	HES	
DIM	MIN	MAX	MIN	MAX	
Α	4.80	5.00	0.189	0.197	
В	3.80	4.00	0.150	0.157	
С	1.35	1.75	0.053	0.069	
D	0.33	0.51	0.013	0.020	
G	1.27	7 BSC	0.050 BSC		
Н	0.10	0.25	0.004	0.010	
J	0.19	0.25	0.007	0.010	
K	0.40	1.27	0.016	0.050	
М	0 °	8 °	0 °	8 °	
N	0.25	0.50	0.010	0.020	
S	5.80	6.20	0.228	0.244	

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*



XXXXX = Specific Device Code = Assembly Location = Wafer Lot

= Year = Work Week = Pb-Free Package

AYWW H \mathbb{H} Discrete **Discrete** (Pb-Free) XXXXXX = Specific Device Code

XXXXXX

XXXXXX

AYWW

= Assembly Location Α ww = 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. Some products may not follow the Generic Marking.

STYLES ON PAGE 2

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SOIC-8 NB CASE 751-07 ISSUE AK

DATE 16 FEB 2011

STYLE 1: PIN 1. EMITTER 2. COLLECTOR 3. COLLECTOR 4. EMITTER 5. EMITTER 6. BASE 7. BASE 8. EMITTER	STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 3. COLLECTOR, #2 4. COLLECTOR, #2 5. BASE, #2 6. EMITTER, #2 7. BASE, #1 8. EMITTER, #1	STYLE 3: PIN 1. DRAIN, DIE #1 2. DRAIN, #1 3. DRAIN, #2 4. DRAIN, #2 5. GATE, #2 6. SOURCE, #2 7. GATE, #1 8. SOURCE, #1	STYLE 4: PIN 1. ANODE 2. ANODE 3. ANODE 4. ANODE 5. ANODE 6. ANODE 7. ANODE 8. COMMON CATHODE
STYLE 5: PIN 1. DRAIN 2. DRAIN 3. DRAIN 4. DRAIN 5. GATE 6. GATE 7. SOURCE 8. SOURCE	PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE	PIN 1. INPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd	PIN 1. COLLECTOR, DIE #1 2. BASE, #1
STYLE 9: PIN 1. EMITTER, COMMON 2. COLLECTOR, DIE #1 3. COLLECTOR, DIE #2 4. EMITTER, COMMON 5. EMITTER, COMMON 6. BASE, DIE #2 7. BASE, DIE #1 8. EMITTER, COMMON	STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND 5. GROUND 6. BIAS 2 7. INPUT 8. GROUND	STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. DRAIN 2 7. DRAIN 1	STYLE 12: PIN 1. SOURCE 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 9. DRAIN
STYLE 13: PIN 1. N.C. 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN	STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3. P-SOURCE 4. P-GATE 5. P-DRAIN 6. P-DRAIN 7. N-DRAIN 8. N-DRAIN	STYLE 15: PIN 1. ANODE 1 2. ANODE 1 3. ANODE 1 4. ANODE 1 5. CATHODE, COMMON 6. CATHODE, COMMON 7. CATHODE, COMMON 8. CATHODE, COMMON	STYLE 16: PIN 1. EMITTER, DIE #1 2. BASE, DIE #1 3. EMITTER, DIE #2 4. BASE, DIE #2 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 7. COLLECTOR, DIE #1 8. COLLECTOR, DIE #1
STYLE 17: PIN 1. VCC 2. V2OUT 3. V1OUT 4. TXE 5. RXE 6. VEE 7. GND 8. ACC	STYLE 18: PIN 1. ANODE 2. ANODE 3. SOURCE 4. GATE 5. DRAIN	STYLE 19: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. MIRROR 2	STYLE 20: PIN 1. SOURCE (N) 2. GATE (N) 3. SOURCE (P) 4. GATE (P) 5. DRAIN 6. DRAIN
3. V10UT 4. TXE 5. RXE 6. VEE 7. GND 8. ACC STYLE 21: PIN 1. CATHODE 1 2. CATHODE 2 3. CATHODE 3 4. CATHODE 4 5. CATHODE 5 6. COMMON ANODE 7. COMMON ANODE 8. CATHODE 6	STYLE 22:	7. DRAIN 1 8. MIRROR 1 STYLE 23: PIN 1. LINE 1 IN 2. COMMON ANODE/GND 3. COMMON ANODE/GND 4. LINE 2 IN 5. LINE 2 OUT 6. COMMON ANODE/GND 7. COMMON ANODE/GND 8. LINE 1 OUT	STYLE 24: PIN 1. BASE 2. EMITTER 3. COLLECTOR/ANODE 4. COLLECTOR/ANODE 5. CATHODE 6. CATHODE 7. COLLECTOR/ANODE 8. COLLECTOR/ANODE
STYLE 25: PIN 1. VIN 2. N/C 3. REXT 4. GND 5. IOUT 6. IOUT 7. IOUT 8. IOUT	STYLE 26: PIN 1. GND 2. dv/dt 3. ENABLE 4. ILIMIT 5. SOURCE 6. SOURCE 7. SOURCE 8. VCC	STYLE 27: PIN 1. ILIMIT 2. OVLO 3. UVLO 4. INPUT+ 5. SOURCE 6. SOURCE 7. SOURCE 8. DRAIN	STYLE 28: PIN 1. SW_TO_GND 2. DASIC_OFF 3. DASIC_SW_DET 4. GND 5. V_MON 6. VBULK 7. VBULK 8. VIN
STYLE 29: PIN 1. BASE, DIE #1 2. EMITTER, #1 3. BASE, #2 4. EMITTER, #2 5. COLLECTOR, #2 6. COLLECTOR, #2 7. COLLECTOR, #1 8. COLLECTOR, #1	STYLE 30: PIN 1. DRAIN 1 2. DRAIN 1 3. GATE 2 4. SOURCE 2 5. SOURCE 1/DRAIN 2 6. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2 8. GATE 1		

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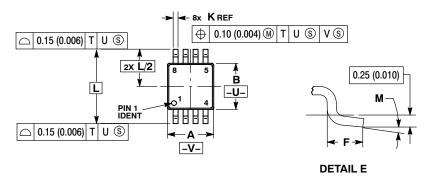
MECHANICAL CASE OUTLINE

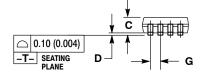
PACKAGE DIMENSIONS

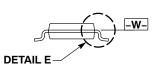


TSSOP-8 3.00x3.00x0.95 CASE 948R-02 **ISSUE A**

DATE 07 APR 2000







NOTES:

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

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	2.90	3.10	0.114	0.122
В	2.90	3.10	0.114	0.122
С	0.80	1.10	0.031	0.043
D	0.05	0.15	0.002	0.006
F	0.40	0.70	0.016	0.028
G	0.65 BSC		0.026 BSC	
K	0.25	0.40	0.010	0.016
L	4.90 BSC		0.193 BSC	
M	0°	6 °	0°	6°

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DESCRIPTION:	TSSOP-8 3.00x3.00x0.95		PAGE 1 OF 1

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