3.3 V 1:2 Fanout Differential LVPECL/LVDS to LVTTL **Translator**

Description

The MC100EPT26 is a 1:2 Fanout Differential LVPECL/LVDS to LVTTL translator. Because LVPECL (Positive ECL) or LVDS levels are used only +3.3 V and ground are required. The small outline 8-lead package and the 1:2 fanout design of the EPT26 makes it ideal for applications which require the low skew duplication of a signal in a tightly packed PC board.

The V_{BB} output allows the EPT26 to be used in a Single-Ended input mode. In this mode the V_{BB} output is tied to the $\overline{D0}$ input for a non-inverting buffer or the D0 input for an inverting buffer. If used, the V_{BB} pin should be bypassed to ground with > 0.01 μ F capacitor. For a Single-Ended direct connection, use an external voltage reference source such as a resistor divider. Do not use V_{BB} for a Single-Ended direct connection or port to another device.

Features

- 1.4 ns Typical Propagation Delay
- Maximum Frequency = > 275 MHz Typical
- The 100 Series Contains Temperature Compensation
- Operating Range: $V_{CC} = 3.0 \text{ V}$ to 3.6 V with GND = 0 V
- 24 mA TTL outputs
- Q Outputs Will Default LOW with Inputs Open or at V_{EE}
- V_{BB} Output
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant



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SOIC-8 NB **D SUFFIX**

TSSOP-8 **DT SUFFIX** CASE 751-07 CASE 948R-02 CASE 506AA

MN SUFFIX

MARKING DIAGRAMS*







SOIC-8 NB

TSSOP-8

DFN8

= Assembly Location Α

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

(Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping†
MC100EPT26DG	SOIC-8 NB (Pb-Free)	98 Units/Tube
MC100EPT26DR2G	SOIC-8 NB (Pb-Free)	2500 Tape & Reel
MC100EPT26DTG	TSSOP-8 (Pb-Free)	100 Tape & Reel
MC100RPT26DTR2G	TSSOP-8 (Pb-Free)	2500 Tape & Reel
MC100EPT26MNR4G	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.

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

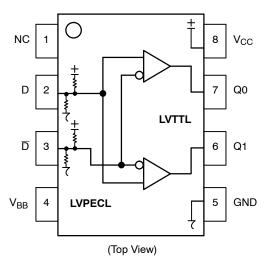


Figure 1. 8-Lead Pinout and Logic Diagram

Table 1. PIN DESCRIPTION

Pin	Function
Q0, Q1	LVTTL Outputs
D0**, D1**	Differential LVPECL Inputs Pair
V _{CC}	Positive Supply
V_{BB}	Output Reference Voltage
GND	Ground
NC	No Connect
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.

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

Table 2. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	50 kΩ
Internal Input Pullup Resistor	50 kΩ
ESD Protection Human Body Model Machine Model Charged Device Model	> 1.5 kV > 100 V > 2 kV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 1)	Pb-Free Pkg
SOIC-8 NB 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	117 Devices
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	Unit
V _{CC}	Positive Power Supply	GND = 0 V		3.8	V
V _{IN}	Input Voltage	GND = 0 V	$V_I \leq V_{CC}$	0 to 3.8	V
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-8 NB SOIC-8 NB	190 130	°C/W
$\theta_{\sf JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8 NB	41 to 44	°C/W
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	TSSOP-8 TSSOP-8	185 140	°C/W
$\theta_{\sf JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	TSSOP-8	41 to 44	°C/W
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	DFN8 DFN8	129 84	°C/W
T _{sol}	Wave Solder (Pb-Free)			265	°C
θ _{JC}	Thermal Resistance (Junction-to-Case)	(Note 1)	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.

Table 4. PECL INPUT DC CHARACTERISTICS (V_{CC} = 3.3 V; GND = 0.0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
V _{IH}	Input HIGH Voltage (Single-Ended)	2075		2420	2075		2420	2075		2420	mV
V _{IL}	Input LOW Voltage (Single-Ended)	1355		1675	1355		1675	1355		1675	mV
V _{BB}	Output Voltage Reference	1775	1875	1975	1775	1875	1975	1775	1875	1975	٧
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 2)	1.2		3.3	1.2		3.3	1.2		3.3	٧
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current D D	-150 -150			-150 -150			-150 -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. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

^{1.} JEDEC standard multilayer board - 2S2P (2 signal, 2 power)

Input parameters vary 1:1 with V_{CC}.
 V_{IHCMR} min varies 1:1 with GND, 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 5. TTL OUTPUT DC CHARACTERISTICS ($V_{CC} = 3.3 \text{ V}$; GND = 0.0 V; $T_A = -40 ^{\circ}\text{C}$ to 85°C)

Symbol	Characteristic	Condition	Min	Тур	Max	Unit
V _{OH}	Output HIGH Voltage	I _{OH} = −3.0 mA	2.4			٧
V _{OL}	Output LOW Voltage	I _{OL} = 24 mA			0.5	٧
I _{CCH}	Power Supply Current		10	25	35	mA
I _{CCL}	Power Supply Current		15	34	40	mA
Ios	Output Short Circuit Current		-50		-150	mA

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. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

Table 6. AC CHARACTERISTICS (V_{CC} = 3.0 V to 3.6 V; GND = 0.0 V (Note 1))

		-40°C		25°C		85°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Frequency (Figure 2)	275	350		275	350		275	350		MHz
t _{PLH} , t _{PHL}	Propagation Delay to Output Differential (Note 2)	1.2 1.2	1.5 1.5	2.0 1.8	1.2 1.2	1.5 1.5	2.0 1.8	1.3 1.2	1.7 1.5	2.2 1.8	ns
t _{SK++} t _{SK} t _{SKPP}	Within Device Skew + + Within Device Skew Device-to-Device Skew (Note 3)		15 20 100	60 85 500		15 20 100	60 85 500		20 30 100	85 85 500	ps
t _{JITTER}	Random Clock Jitter (RMS) (Figure 2) @ ≤ 200 MHz @ > 200 MHz		6 20	30 275		6 40	30 275		6 170	30 275	ps
V _{PP}	Input Voltage Swing (Differential Configuration)	150	800	1200	150	800	1200	150	800	1200	mV
t _r	Output Rise/Fall Times (0.8 V-2.0 V) Q, $\overline{\mathbb{Q}}$	330	600	950	330	600	950	330	650	950	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. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Measured with a 750 mV 50% duty-cycle clock source. R_L = 500 Ω to GND and C_L = 20 pF to GND. Refer to Figure 3.
- 2. Reference (V_{CC} = 3.3 V \pm 5%; GND = 0 V)
- 3. Skews are measured between outputs under identical transitions.

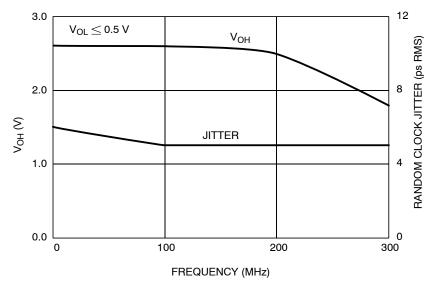


Figure 2. Typical V_{OH} / Jitter versus Frequency (25°C)

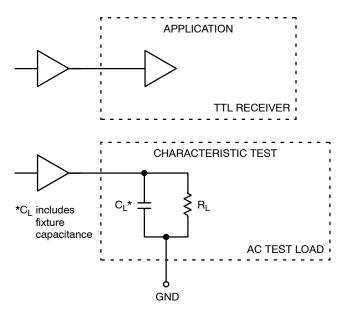


Figure 3. TTL Output Loading Used for Device Evaluation

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

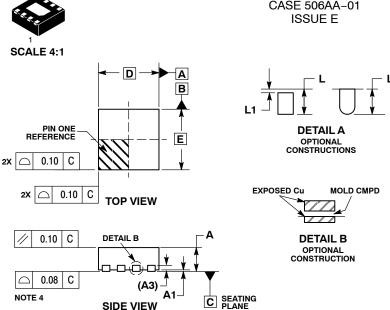
AND8090/D - AC Characteristics of ECL Devices

DETAIL A

е

- D2 →

BOTTOM VIEW



0.10 C

Ф

AB

0.05 C NOTE 3



DATE 22 JAN 2010

NOTES

- DIMENSIONING AND TOLERANCING PER
- ASME Y14.5M, 1994 . CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSION b 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.

l	MILLIMETERS						
	MILLIMETERS						
DIM	MIN	MAX					
Α	0.80	1.00					
A1	0.00	0.05					
A3	0.20 REF						
b	0.20	0.30					
D	2.00	BSC					
D2	1.10	1.30					
E	2.00	BSC					
E2	0.70	0.90					
е	0.50 BSC						
K	0.30	REF					
L	0.25	0.35					
L1		0.10					

GENERIC MARKING DIAGRAM*



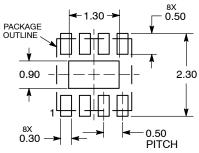
XX = Specific Device Code

= 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.

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

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

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

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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.

	MILLIN	IETERS	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 ON Semiconductor 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



XXXXXX = Specific Device Code = Assembly Location Α

= Year 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 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 3. COLLECTOR, #2 4. COLLECTOR, #2 6. EMITTER, #2 7. BASE, #1 8. EMITTER, #1 STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND 5. GROUND 6. PINS 2	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 7: PIN 1. IMPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2	3. BASE, #2 4. COLLECTOR, #2 5. COLLECTOR, #2 6. EMITTER, #2 7. EMITTER, #1 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE 2. SOURCE
PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND	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 STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2	PIN 1. COLLECTOR, DIE #1 2. BASE, #1 3. BASE, #2 4. COLLECTOR, #2 5. COLLECTOR, #2 6. EMITTER, #2 7. EMITTER, #1 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE 2. SOURCE
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6. BIAS 2 7. INPUT 8. GROUND	5. DRAIN 2 6. DRAIN 2 7. DRAIN 1 8. DRAIN 1	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 18: PIN 1. ANODE 2. ANODE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. CATHODE 8. CATHODE	STYLE 19: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. MIRROR 2 7. DRAIN 1 8. MIRROR 1	STYLE 20: PIN 1. SOURCE (N) 2. GATE (N) 3. SOURCE (P) 4. GATE (P) 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN
STYLE 22: PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC 3. COMMON CATHODE/VCC 4. I/O LINE 3 5. COMMON ANODE/GND 6. I/O LINE 4 7. I/O LINE 5 8. COMMON ANODE/GND	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 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 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		
	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 8. N-DRAIN 8. N-DRAIN 8. N-DRAIN 8. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. CATHODE 8. CATHODE 8. CATHODE 8. CATHODE 8. CATHODE 8. CATHODE 9. COMMON CATHODE/VCC 9. COMMON CATHODE/VCC 1. I/O LINE 1 2. COMMON CATHODE/VCC 1. I/O LINE 3 5. COMMON ANODE/GND 6. I/O LINE 5 8. COMMON ANODE/GND 8. COMMON ANODE/GND 8. COMMON ANODE/GND 8. COMMON ANODE/GND 8. I/O LINE 5 8. COMMON ANODE/GND 8. SOURCE 9. I/O LINE 5 8. COMMON ANODE/GND 8. VILLE 26: PIN 1. GND 2. dv/dt 3. ENABLE 4. ILLIMIT 5. SOURCE 6. SOURCE 7. SOURCE 8. VCC 8. VCC 8. VCC 8. VCC 8. VCC 8. SOURCE 2 4. SOURCE 1/DRAIN 2 6. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2	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 8. N-DRAIN 8. N-DRAIN 8. N-DRAIN 7. CATHODE, COMMON 8. N-DRAIN 8. CATHODE, COMMON 8. CATHODE 9IN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 4. GATE 2 5. DRAIN 6. MIRROR 2 7. DRAIN 1 8. MIRROR 1 8. COMMON CATHODE/VCC 1. COMMON CATHODE/VCC 1. COMMON CATHODE/VCC 1. (/O LINE 1 2. COMMON CATHODE/VCC 1. (/O LINE 3 5. COMMON ANODE/GND 6. (/O LINE 4 7. (/O LINE 5 8. COMMON ANODE/GND 8. LINE 2 OUT 9. COMMON ANODE/GND 8. LINE 1 OUT STYLE 26: PIN 1. GND 9. LINE 2 OUT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 27: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 28: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 29: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 29: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 2 OUT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 29: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 29: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 2 OUT 9. COMMON ANODE/GND 9. LINE 1 OUT STYLE 29: PIN 1. ILIMIT 9. COMMON ANODE/GND 9. LINE 2 OUT 9. COMMON ANODE/GND 9. COMMON ANODE/GND 9. LINE 2 OUT 9. COMMON ANODE/GND 9. COMM

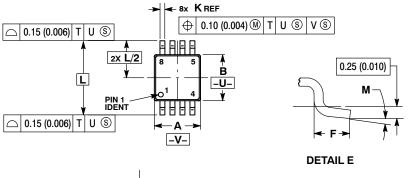
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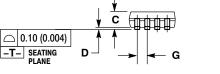
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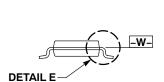


TSSOP 8 CASE 948R-02 ISSUE A

DATE 04/07/2000







- 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. 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	٥°	6 °	٥°	6°

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