5 V Dual Differential PECL to TTL Translator

Description

The MC100ELT23 is a dual differential PECL to TTL translator. Because PECL (Positive ECL) levels are used, only +5 V and ground are required. The small outline 8-lead package and the dual gate design of the ELT23 makes it ideal for applications which require the translation of a clock and a data signal.

The PECL inputs are differential; therefore, the MC100ELT23 can accept any standard differential PECL input referenced from a V_{CC} of 5.0 V.

Features

- 3.5 ns Typical Propagation Delay
- 24 mA TTL Outputs
- Flow Through Pinouts
- The 100 Series Contains Temperature Compensation
- Operating Range $V_{CC} = 4.75 \text{ V}$ to 5.25 V with GND = 0 V
- Internal Input 50 KΩ Pulldown Resistors
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant



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MARKING DIAGRAMS*



SOIC-8 D SUFFIX CASE 751





TSSOP-8 DT SUFFIX CASE 948R



A = Assembly Location

= 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

See detailed ordering and shipping information in the package dimensions section on page 4 of this data sheet.

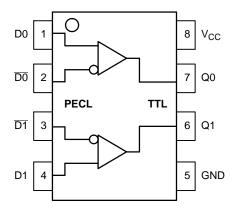


Figure 1. 8-Lead Pinout (Top View) and Logic Diagram

Table 1. PIN DESCRIPTION

Pin	Function			
Qn	TTL Outputs			
Dn, Dn	PECL Differential Inputs			
V _{CC}	Positive Supply			
GND	Ground			

Table 2. ATTRIBUTES

Character	Value				
Internal Input Pulldown Resistor	50 kΩ				
Internal Input Pullup Resistor		N/A			
ESD Protection	> 2 kV > 400 V				
Moisture Sensitivity, Indefinite Tim	ne Out of Drypack (Note 1)	Pb-Free Pkg			
	SOIC-8 TSSOP-8	Level 1 Level 3			
Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in			
Transistor Count	91 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}	Power Supply	GND = 0 V		7	V
VI	Input Voltage	GND = 0 V	$V_{I} \leq V_{CC}$	0 to 6	V
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 SOIC-8	190 130	°C/W
$\theta_{\sf JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8	41 to 44	°C/W
θ_{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 ± 5%	°C/W
T _{sol}	Wave Solder Pb-Free	<2 to 3 sec @ 260°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 4. PECL INPUT DC CHARACTERISTICS $V_{CC} = 5.0 \text{ V}$; GND = 0.0 V (Note 2)

		-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) (Note 3)	3835		4120	3835		4120	3835		4120	mV
V _{IL}	Input LOW Voltage (Single-Ended)	3190		3525	3190		3525	3190		3525	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential) (Note 4)	2.2		5.0	2.2		5.0	2.2		5.0	V
I _{IH}	Input HIGH Current			255			175			175	μΑ
I _{IL}	Input LOW Current	0.5			0.5			0.5			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.

- 2. Input parameters vary 1:1 with V $_{CC}.$ V $_{CC}$ can vary \pm 0.25 V.
- 3. TTL output $R_1 = 500 \Omega$ to GND.
- 4. V_{IHCMR} min varies 1:1 with GND, V_{IHCMR} max varies 1:1 with V_{CC}

Table 5. TTL OUTPUT DC CHARACTERISTICS $V_{CC} = 4.75 \text{ V}$ to 5.25 V; $T_A = -40 ^{\circ}\text{C}$ to $85 ^{\circ}\text{C}$

Symbol	Characteristic	Condition	Min	Тур	Max	Unit
V _{OH}	Output HIGH Voltage	$I_{OH} = -3.0 \text{ mA}$	2.4		(Note 5)	V
V _{OL}	Output LOW Voltage	I _{OL} = 24 mA			0.5	V
I _{CCH}	Power Supply Current			23	33	mA
I _{CCL}	Power Supply Current			26	36	mA
I _{OS}	Output Short Circuit Current		-150		-60	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.

5. Max level is V_{CC} – 0.7 V by design.

Table 6. AC CHARACTERISTICS V_{CC}= 5.0 V; GND= 0.0 V (Note 6 and Note 7)

			-40°C		25°C		•	85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Toggle Frequency					100					MHz
t _{JITTER}	Random Clock Jitter (RMS)					35					ps
t _{PLH}	Propagation Delay @ 1.5 V	2.0		5.5	2.0		5.5	2.0		5.5	ns
t _{PHL}	Propagation Delay @ 1.5 V	2.0		5.5	2.0		5.5	2.0		5.5	ns
V _{PP}	Input Swing (Note 8)	200		1000	200		1000	200		1000	mV
t _r /t _f	Output Rise Time (10–90%) Output Fall Time (10–90%)					1.6 1.1					ns ns

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. V_{CC} can vary \pm 0.25 V.
- 7. TTL output $R_L = 500 \Omega$ to GND, and $C_L = 20 \text{ pF}$ to GND. Refer to Figure 2. 8. $V_{PP}(\text{min})$ is the minimum input swing for which AC parameters are guaranteed. The device has a DC gain of \approx 40.

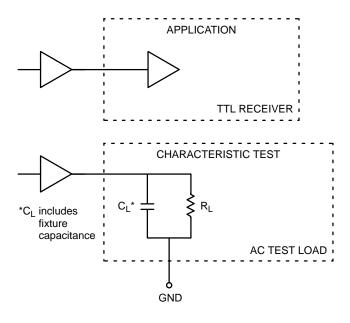


Figure 2. TTL Output Loading Used for Device Evaluation

ORDERING INFORMATION

Device	Package	Shipping [†]
MC100ELT23DG	SOIC-8 (Pb-Free)	98 Units / Rail
MC100ELT23DR2G	SOIC-8 (Pb-Free)	2500 / Tape & Reel
MC100ELT23DTG	TSSOP-8 (Pb-Free)	100 Units / Rail
MC100ELT23DTR2G	TSSOP-8 (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.

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



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 °	0 ° 8 °		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
PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND	PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2	PIN 1. SOURCE 2. SOURCE
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 9. COMMON CATHODE/VCC 9. COMMON CATHODE/VCC 1. (/O LINE 1 2. COMMON CATHODE/VCC 1. (/O LINE 3 5. COMMON ANODE/GND 6. (/O LINE 5 8. COMMON ANODE/GND 8.	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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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-.

	MILLIN	IETERS	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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NB3U23CMNTAG MAX3371ELT+T NLSX3013BFCT1G NLV7WBD3125USG NLSX3012DMR2G 74AVCH1T45FZ4-7
NLVSV1T244MUTBG 74AVC1T45GS-Q100H CLVC16T245MDGGREP MC10H124FNG CAVCB164245MDGGREP CD40109BPWR
MC10H350FNG MC10H125FNG MC100EPT21MNR4G MC100EP91DWG NLSX3018MUTAG NLSV2T244MUTAG NLSX3013FCT1G
NLSX5011AMX1TCG PCA9306USG SN74GTL1655DGGR SN74AVCA406LZQSR NLSX4014DTR2G NLSX3018DTR2G
LTC1045CSW#PBF SY100EL92ZG 74AXP1T34GMH 74AXP1T34GNH LSF0204DPWR PI4ULS3V204LE ADG3245BRUZ-REEL7
ADG3123BRUZ ADG3245BRUZ ADG3246BCPZ ADG3308BCPZ-REEL ADG3233BRJZ-REEL7 ADG3233BRMZ