## MC100EL17

## 5 V ECL Quad Differential Receiver

## Description

The MC100EL17 is a low-voltage, quad differential receiver. The device is functionally equivalent to the E116 device

Under open input conditions, the $\overline{\mathrm{D}}$ input will be biased at $\mathrm{V}_{\mathrm{CC}} / 2$ and the D input will be pulled down to $\mathrm{V}_{\mathrm{EE}}$. This operation will force the Q output LOW and ensure stability.

The $\mathrm{V}_{\mathrm{BB}}$ pin, an internally generated voltage supply, is available to this device only. For single-ended input conditions, the unused differential input is connected to $\mathrm{V}_{\mathrm{BB}}$ as a switching reference voltage. $\mathrm{V}_{\mathrm{BB}}$ may also rebias $A C$ coupled inputs. When used, decouple $V_{B B}$ and $V_{C C}$ via a $0.01 \mu \mathrm{~F}$ capacitor and limit current sourcing or sinking to 0.5 mA . When not used, $\mathrm{V}_{\mathrm{BB}}$ should be left open.

## Features

- 325 ps Propagation Delay
- The 100 Series Contains Temperature Compensation
- PECL Mode Operating Range: $\mathrm{V}_{\mathrm{CC}}=4.2 \mathrm{~V}$ to 5.7 V with $\mathrm{V}_{\mathrm{EE}}=0 \mathrm{~V}$
- NECL Mode Operating Range: $\mathrm{V}_{\mathrm{CC}}=0 \mathrm{~V}$ with $\mathrm{V}_{\mathrm{EE}}=-4.2 \mathrm{~V}$ to -5.7 V
- Internal Input Pulldown Resistors on D Inputs, Pullup and Pulldown Resistors on $\overline{\mathrm{D}}$ Inputs
- Q Output will Default LOW with Inputs Open or at $\mathrm{V}_{\mathrm{EE}}$
- These Devices are $\mathrm{Pb}-$ Free, Halogen Free and are RoHS Compliant


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SOIC-20 WB
DW SUFFIX
CASE 751D-05

MARKING* DIAGRAM


100EL17
AWLYYWWG

$\begin{array}{ll}\text { A } & =\text { Assembly Location } \\ \text { WL } & =\text { Wafer Lot } \\ \text { YY } & =\text { Year } \\ \text { WW } & =\text { Work Week } \\ \text { G } & =\text { Pb-Free Package }\end{array}$
*For additional marking information, refer to
Application Note AND8002/D.

ORDERING INFORMATION

| Device | Package | Shipping |
| :---: | :---: | :---: |
| MC100EL17DWG | SOIC-20 WB <br> (Pb-Free) | 38 Units/Tube |



Table 1. PIN DESCRIPTION

| PIN | FUNCTION |
| :--- | :--- |
| Dn, $\overline{\mathrm{D}}$ | ECL Differential Data Inputs |
| Qn, $\overline{\mathrm{Q}} \mathrm{n}$ | ECL Differential Data Outputs |
| $\mathrm{V}_{\mathrm{BB}}$ | Reference Voltage Output |
| $\mathrm{V}_{\mathrm{CC}}$ | Positive Supply |
| $\mathrm{V}_{\mathrm{EE}}$ | Negative Supply |

Warning: All $\mathrm{V}_{\mathrm{CC}}$ and $\mathrm{V}_{\mathrm{EE}}$ pins must be externally connected to Power Supply to guarantee proper operation.

Figure 1. Logic Diagram and Pinout: (Top View)

Table 2. ATTRIBUTES

| Characteristics | Value |
| :--- | :---: |
| Internal Input Pulldown Resistor | $75 \mathrm{~K} \Omega$ |
| Internal Input Pullup Resistor | $75 \mathrm{~K} \Omega$ |
| ESD Protection <br> Human Body Model <br> Machine Model <br> Charged Device Model | $>2 \mathrm{KV}$ <br> $>200 \mathrm{~V}$ <br> $>4 \mathrm{~V}$ |
| Moisture Sensitivity (Note 1) <br> Pb-Free | Level 3 |
| Flammability Rating <br> Oxygen Index: 28 to 34 | UL 94 V-0 @ 0.125 in |
| Transistor Count | 141 |
| 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 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | PECL Mode Power Supply | $\mathrm{V}_{\mathrm{EE}}=0 \mathrm{~V}$ |  | 8 | V |
| $\mathrm{V}_{\text {EE }}$ | NECL Mode Power Supply | $\mathrm{V}_{\mathrm{CC}}=0 \mathrm{~V}$ |  | -8 | V |
| $\mathrm{V}_{1}$ | PECL Mode Input Voltage NECL Mode Input Voltage | $\begin{aligned} & V_{E E}=0 V \\ & V_{C C}=0 V \end{aligned}$ | $\begin{aligned} & \mathrm{V}_{1} \leq \mathrm{V}_{\mathrm{CC}} \\ & \mathrm{~V}_{1} \geq \mathrm{V}_{\mathrm{EE}} \end{aligned}$ | $\begin{gathered} \hline 6 \\ -6 \end{gathered}$ | V |
| $\mathrm{I}_{\text {out }}$ | Output Current | Continuous Surge |  | $\begin{gathered} 50 \\ 100 \end{gathered}$ | mA |
| $\mathrm{I}_{\text {BB }}$ | $\mathrm{V}_{\text {BB }}$ Sink/Source |  |  | $\pm 0.5$ | mA |
| $\mathrm{T}_{\mathrm{A}}$ | Operating Temperature Range |  |  | -40 to +85 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\text {stg }}$ | Storage Temperature Range |  |  | -65 to +150 | ${ }^{\circ} \mathrm{C}$ |
| $\theta_{\text {JA }}$ | Thermal Resistance (Junction-to-Ambient) | 0 Ifpm 500 lfpm | SOIC-20 WB | $\begin{aligned} & 90 \\ & 60 \end{aligned}$ | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| $\theta_{\text {Jc }}$ | Thermal Resistance (Junction-to-Case) | Standard Board | SOIC-20 WB | 30 to 35 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| $\mathrm{T}_{\text {sol }}$ | Wave Solder (Pb-Free) | <2 to 3 sec @ $260^{\circ} \mathrm{C}$ |  | 265 | ${ }^{\circ} \mathrm{C}$ |

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. 100EL SERIES PECL DC CHARACTERISTICS $\left(\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V} ; \mathrm{V}_{\mathrm{EE}}=0 \mathrm{~V}\right.$ (Note 1))

|  |  | $-40^{\circ} \mathrm{C}$ |  |  | $25^{\circ} \mathrm{C}$ |  |  | $85^{\circ} \mathrm{C}$ |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Characteristic | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max |  |
| $\mathrm{I}_{\text {EE }}$ | Power Supply Current |  | 26 | 31 |  | 26 | 31 |  | 27 | 33 | mA |
| $\mathrm{V}_{\mathrm{OH}}$ | Output HIGH Voltage (Note 2) | 3915 | 3995 | 4120 | 3975 | 4045 | 4120 | 3975 | 4050 | 4120 | mV |
| $\mathrm{V}_{\text {OL }}$ | Output LOW Voltage (Note 2) | 3170 | 3305 | 3445 | 3190 | 3295 | 3380 | 3190 | 3295 | 3380 | mV |
| $\mathrm{V}_{\mathrm{IH}}$ | Input HIGH Voltage (Single-Ended) | 3835 |  | 4120 | 3835 |  | 4120 | 3835 |  | 4120 | mV |
| $\mathrm{V}_{\mathrm{IL}}$ | Input LOW Voltage (Single-Ended) | 3190 |  | 3525 | 3190 |  | 3525 | 3190 |  | 3525 | mV |
| $\mathrm{V}_{\mathrm{BB}}$ | Output Voltage Reference | 3.62 |  | 3.74 | 3.62 |  | 3.74 | 3.62 |  | 3.74 | V |
| $\mathrm{V}_{\text {IHCMR }}$ | Common Mode Range (Differential) (Note 3) $\begin{aligned} & V_{P P}<500 \mathrm{mV} \\ & V_{P P} \geq 500 \mathrm{mV} \end{aligned}$ | $\begin{aligned} & 1.3 \\ & 1.5 \end{aligned}$ |  | $\begin{aligned} & 4.6 \\ & 4.6 \end{aligned}$ | $\begin{aligned} & 1.2 \\ & 1.4 \end{aligned}$ |  | $\begin{aligned} & 4.6 \\ & 4.6 \end{aligned}$ | $\begin{aligned} & 1.2 \\ & 1.4 \end{aligned}$ |  | $\begin{aligned} & 4.6 \\ & 4.6 \end{aligned}$ | V |
| $\mathrm{IIH}^{\text {H }}$ | Input HIGH Current |  |  | 150 |  |  | 150 |  |  | 150 | $\mu \mathrm{A}$ |
| ILL | Input LOW Current | 0.5 |  |  | 0.5 |  |  | 0.5 |  |  | $\mu \mathrm{A}$ |

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. Input and output parameters vary $1: 1$ with $\mathrm{V}_{\mathrm{CC}}$. $\mathrm{V}_{\mathrm{EE}}$ can vary $+0.8 \mathrm{~V} /-0.5 \mathrm{~V}$.
2. Outputs are terminated through a $50 \Omega$ resistor to $\mathrm{V}_{\mathrm{CC}}-2.0 \mathrm{~V}$.
3. $\mathrm{V}_{\text {IHCMR }}$ min varies $1: 1$ with $\mathrm{V}_{\text {EE }}, \mathrm{V}_{\text {IHCMR }}$ max varies $1: 1$ with $\mathrm{V}_{\mathrm{CC}}$. The $\mathrm{V}_{\text {IHCMR }}$ 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 $\mathrm{V}_{\mathrm{PP}}$ min and 1 V .
Table 5. 100EL SERIES NECL DC CHARACTERISTICS $\left(\mathrm{V}_{\mathrm{CC}}=0 \mathrm{~V}\right.$; $\mathrm{V}_{\mathrm{EE}}=-5.0 \mathrm{~V}$ (Note 1))

|  |  | $-40^{\circ} \mathrm{C}$ |  |  | $25^{\circ} \mathrm{C}$ |  |  | $85^{\circ} \mathrm{C}$ |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Characteristic | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max |  |
| $\mathrm{I}_{\text {EE }}$ | Power Supply Current |  | 26 | 31 |  | 26 | 31 |  | 27 | 33 | mA |
| $\mathrm{V}_{\mathrm{OH}}$ | Output HIGH Voltage (Note 2) | -1085 | -1005 | -880 | -1025 | -955 | -880 | -1025 | -955 | -880 | mV |
| $\mathrm{V}_{\text {OL }}$ | Output LOW Voltage (Note 2) | -1830 | -1695 | -1555 | -1810 | -1705 | -1620 | -1810 | -1705 | -1620 | mV |
| $\mathrm{V}_{\mathrm{IH}}$ | Input HIGH Voltage (Single-Ended) | -1165 |  | -880 | -1165 |  | -880 | -1165 |  | -880 | mV |
| $\mathrm{V}_{\mathrm{IL}}$ | Input LOW Voltage (Single-Ended) | -1810 |  | -1475 | -1810 |  | -1475 | -1810 |  | -1475 | mV |
| $\mathrm{V}_{\mathrm{BB}}$ | Output Voltage Reference | -1.38 |  | -1.26 | -1.38 |  | -1.26 | -1.38 |  | -1.26 | V |
| $\mathrm{V}_{\text {IHCMR }}$ | Common Mode Range (Differential) (Note 3) $\begin{aligned} & V_{P P}<500 \mathrm{mV} \\ & \mathrm{~V}_{\mathrm{PP}} \geq 500 \mathrm{mV} \end{aligned}$ | $\begin{aligned} & -3.7 \\ & -3.5 \end{aligned}$ |  | $\begin{aligned} & -0.4 \\ & -0.4 \end{aligned}$ | $\begin{aligned} & -3.8 \\ & -3.6 \end{aligned}$ |  | $\begin{aligned} & -0.4 \\ & -0.4 \end{aligned}$ | $\begin{aligned} & -3.8 \\ & -3.6 \end{aligned}$ |  | $\begin{aligned} & -0.4 \\ & -0.4 \end{aligned}$ | V |
| IIH | Input HIGH Current |  |  | 150 |  |  | 150 |  |  | 150 | $\mu \mathrm{A}$ |
| IIL | Input LOW Current | 0.5 |  |  | 0.5 |  |  | 0.5 |  |  | $\mu \mathrm{A}$ |

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. Input and output parameters vary $1: 1$ with $\mathrm{V}_{\mathrm{CC}}$. $\mathrm{V}_{\mathrm{EE}}$ can vary $+0.8 \mathrm{~V} /-0.5 \mathrm{~V}$.
2. Outputs are terminated through a $50 \Omega$ resistor to $\mathrm{V}_{\mathrm{CC}}-2.0 \mathrm{~V}$.
3. $\mathrm{V}_{\text {IHCMR }}$ min varies $1: 1$ with $\mathrm{V}_{\text {EE }}, \mathrm{V}_{\text {IHCMR }}$ max varies $1: 1$ with $\mathrm{V}_{\mathrm{CC}}$. The $\mathrm{V}_{\text {IHCMR }}$ 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 $\mathrm{V}_{\mathrm{Pp}} \mathrm{min}$ and 1 V .

Table 6. AC CHARACTERISTICS $\left(\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V} ; \mathrm{V}_{\mathrm{EE}}=0 \mathrm{~V}\right.$ or $\mathrm{V}_{\mathrm{CC}}=0 \mathrm{~V} ; \mathrm{V}_{\mathrm{EE}}=-5.0 \mathrm{~V}$ (Note 1))

| Symbol | Characteristic | $-40^{\circ} \mathrm{C}$ |  |  | $25^{\circ} \mathrm{C}$ |  |  | $85^{\circ} \mathrm{C}$ |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Min | Typ | Max | Min | Typ | Max | Min | Typ | Max |  |
| $\mathrm{f}_{\text {MAX }}$ | Maximum Toggle Frequency |  |  |  |  | 1.75 |  |  |  |  | GHz |
| $\begin{aligned} & \hline \mathrm{t}_{\mathrm{PLH}} \\ & \mathrm{t}_{\mathrm{PHL}} \end{aligned}$ | Propagation Delay Differential <br> D to Q Single-Ended | $\begin{aligned} & 330 \\ & 280 \end{aligned}$ |  | $\begin{aligned} & 530 \\ & 580 \end{aligned}$ | $\begin{aligned} & 350 \\ & 300 \end{aligned}$ |  | $\begin{aligned} & 550 \\ & 600 \end{aligned}$ | $\begin{aligned} & 360 \\ & 310 \end{aligned}$ |  | $\begin{aligned} & 560 \\ & 610 \end{aligned}$ | ps |
| tskew | Skew <br> Output-to-Output (Note 2) Part-to-Part (Diff) (Note 2) Duty Cycle (Diff) (Note 3) |  |  | $\begin{gathered} 75 \\ 200 \\ 25 \end{gathered}$ |  |  | $\begin{gathered} 75 \\ 200 \\ 25 \end{gathered}$ |  |  | $\begin{gathered} 75 \\ 200 \\ 25 \end{gathered}$ | ps |
| $\mathrm{t}_{\text {JITTER }}$ | Random Clock Jitter (RMS) |  |  |  |  | 0.7 |  |  |  |  | ps |
| $\mathrm{V}_{\mathrm{PP}}$ | Input Swing (Note 4) | 150 |  | 1000 | 150 |  | 1000 | 150 |  | 1000 | mV |
| $\mathrm{t}_{\mathrm{r}}$ $\mathrm{t}_{\mathrm{f}}$ | Output Rise/Fall Times Q $(20 \%-80 \%)$ | 280 |  | 550 | 280 |  | 550 | 280 |  | 550 | 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. $\mathrm{V}_{\mathrm{EE}}$ can vary $+0.8 \mathrm{~V} /-0.5 \mathrm{~V}$.
2. Skews are valid across specified voltage range, part-to-part skew is for a given temperature.
3. Duty cycle skew is the difference between a $\mathrm{t}_{\mathrm{PLH}}$ and $\mathrm{t}_{\mathrm{PHL}}$ propagation delay through a device.
4. $\mathrm{V}_{\mathrm{PP}}(\mathrm{min})$ is minimum input swing for which $A C$ parameters guaranteed. The device has a $D C$ gain of $\approx 40$.


Figure 2. 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 $^{\text {mT }}$ 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


SCALE 1:1


NOTES:

1. DIMENSIONS ARE IN MILLIMETERS.
2. INTERPRET DIMENSIONS AND TOLERANCES

PER ASME Y14.5M, 1994
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE
5. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION PROTRUSION. ALLOWABLE PROTRUSION
SHALL BE 0.13 TOTAL IN EXCESS OF B SHALL BE 0.13 TOTAL IN EXCESS OF B DIMENSION AT MAXIMUM MATERIAL CONDITION.

| DIM | MILLIMETERS |  |
| :---: | ---: | ---: |
|  | MIN | MAX |
| A | 2.35 | 2.65 |
| A1 | 0.10 | 0.25 |
| b | 0.35 | 0.49 |
| $\mathbf{c}$ | 0.23 | 0.32 |
| D | 12.65 | 12.95 |
| E | 7.40 | 7.60 |
| e | 1.27 BSC |  |
| H | 10.05 | 10.55 |
| $\mathbf{h}$ | 0.25 | 0.75 |
| L | 0.50 | 0.90 |
| $\boldsymbol{\theta}$ | $0^{\circ}$ | $7^{\circ}$ |

GENERIC
MARKING DIAGRAM*


| XXXXX | $=$ Specific Device Code |
| :--- | :--- |
| A | $=$ Assembly Location |
| WL | $=$ Wafer Lot |
| YY | $=$ Year |
| WW | $=$ Work Week |
| G | $=$ Pb-Free Package |

*This information is generic. Please refer to device data sheet for actual part marking. $\mathrm{Pb}-$ Free indicator, " G " or microdot " $\mathrm{\nabla}$ ", may or may not be present.

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| ---: | :--- | :--- | :--- |
| DESCRIPTION: | SOIC-20 WB | PAGE 1 OF 1 |

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