5 V ECL ÷2 Divider

MC10EL32, MC100EL32

Description

The MC10EL/100EL32 is an integrated $\div 2$ divider. The differential clock inputs and the V_{BB} allow a differential, single-ended or AC coupled interface to the device. 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 µF capacitor and limit current sourcing or sinking to 0.5 mA. When not used, V_{BB} should be left open.

The reset pin is asynchronous and is asserted on the rising edge. Upon power-up, the internal flip-flop will attain a random state; the reset allows for the synchronization of multiple EL32's in a system.

The 100 Series contains temperature compensation.

Features

- 510 ps Propagation Delay
- 3.0 GHz Toggle Frequency
- ESD Protection:
 - ◆ >1 kV Human Body Model
 - ♦ > 100 V Machine Model
- PECL Mode Operating Range:
- $V_{CC} = 4.2 \text{ V}$ to 5.7 V with $V_{EE} = 0 \text{ V}$
- NECL Mode Operating Range:
 - $V_{CC} = 0$ V with $V_{EE} = -4.2$ V to -5.7 V
- Internal Input Pulldown Resistors on CLK(s) and R.
- Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test
- Moisture Sensitivity
 - ◆ Level 1 for SOIC-8 NB
 - For Additional Information, see Application Note <u>AND8003/D</u>
- Flammability Rating: UL 94 V-0 @ 0.125 in,
- Oxygen Index: 28 to 34
- Transistor Count = 82 devices
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant



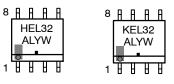
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SOIC-8 NB D SUFFIX CASE 751-07

MARKING DIAGRAMS*



$$H = MC10$$

$$K = MC100$$

- 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 <u>AND8002/D</u>.

ORDERING INFORMATION

Device	Package	Shipping _†
MC10EL32DG	SOIC-8 NB (Pb-Free)	98 Units / Tube
MC10EL32DR2G	SOIC-8 NB (Pb-Free)	2500 / Tape & Reel
MC100EL32DG	SOIC-8 NB (Pb-Free)	98 Units / Tube
MC100EL32DR2G	SOIC-8 NB (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, <u>BRD8011/D</u>.

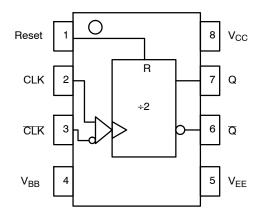


Figure 1. Logic Diagram and Pinout Assignment

Table 2. MAXIMUM RATINGS

Table 1. PIN DESCRIPTION

PIN	FUNCTION				
CLK, CLK	ECL Clock Inputs*				
Reset	ECL Asynch Reset*				
Q, <u>Q</u>	ECL Data Outputs				
V _{BB}	Reference Voltage Output				
V _{CC}	Positive Supply				
V _{EE}	Negative Supply				

*Pins will default low when left open.

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V _{CC}	PECL Mode Power Supply	V _{EE} = 0 V		8	V
V_{EE}	NECL Mode Power Supply	V _{CC} = 0 V		-8	V
VI	PECL Mode Input Voltage NECL Mode Input Voltage	V _{EE} = 0 V V _{CC} = 0 V	$\begin{array}{l} V_I \leq V_{CC} \\ V_I \geq V_{EE} \end{array}$	6 -6	V
I _{out}	Output Current	Continuous Surge		50 100	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)	0 lfpm 500 lfpm	SOIC-8 NB	190 130	°C/W
θ_{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8 NB	41 to 44	°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. 1. JEDEC standard multilayer board – 2S2P (2 signal, 2 power)

				−40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit	
I _{EE}	Power Supply Current		25	30		25	30		25	30	mA	
V _{OH}	Output HIGH Voltage (Note 2)	3920	4010	4110	4020	4105	4190	4090	4185	4280	mV	
V _{OL}	Output LOW Voltage (Note 2)	3050	3200	3350	3050	3210	3370	3050	3227	3405	mV	
VIH	Input HIGH Voltage (Single-Ended)	3770		4110	3870		4190	3940		4280	mV	
VIL	Input LOW Voltage (Single-Ended)	3050		3500	3050		3520	3050		3555	mV	
V_{BB}	Output Voltage Reference	3.57		3.7	3.65		3.75	3.69		3.81	V	
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V	
I _{IH}	Input HIGH Current			150			150			150	μΑ	
IIL	Input LOW Current	0.5			0.5			0.3			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.25 V / -0.5 V. 2. Outputs are terminated through a 50 Ω resistor to V_{CC} – 2.0 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. 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 1V.

			–40°C 25°C							85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit		
I _{EE}	Power Supply Current		25	30		25	30		25	30	mA		
V _{OH}	Output HIGH Voltage (Note 2)	-1080	-990	-890	-980	-895	-810	-910	-815	-720	mV		
V _{OL}	Output LOW Voltage (Note 2)	-1950	-1800	-1650	-1950	-1790	-1630	-1950	-1773	-1595	mV		
V _{IH}	Input HIGH Voltage (Single-Ended)	-1230		-890	-1130		-810	-1060		-720	mV		
V_{IL}	Input LOW Voltage (Single-Ended)	-1950		-1500	-1950		-1480	-1950		-1445	mV		
V_{BB}	Output Voltage Reference	-1.43		-1.30	-1.35		-1.25	-1.31		-1.19	V		
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V		
I _{IH}	Input HIGH Current			150			150			150	μA		
۱ _{IL}	Input LOW Current	0.5			0.5			0.3			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.25 V / –0.5 V. 2. Outputs are terminated through a 50 Ω resistor to V_{CC} – 2.0 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. 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 1V.

Table 5. 100EL SERIES PECL DC CHARACTERISTICS (V_{CC} = 5.0 V; V_{EE} = 0 V (Note 1))

		−40°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		25	30		25	30		29	35	mA
V _{OH}	Output HIGH Voltage (Note 2)	3915	3995	4120	3975	4045	4120	3975	4050	4120	mV
V _{OL}	Output LOW Voltage (Note 2)	3170	3305	3445	3190	3295	3380	3190	3295	3380	mV
VIH	Input HIGH Voltage (Single-Ended)	3835		4120	3835		4120	3835		4120	mV
VIL	Input LOW Voltage (Single-Ended)	3190		3525	3190		3525	3190		3525	mV
V_{BB}	Output Voltage Reference	3.62		3.74	3.62		3.74	3.62		3.74	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V
I _{IH}	Input HIGH Current			150			150			150	μΑ
١ _{١L}	Input LOW Current	0.5			0.5			0.5			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.8 V / –0.5 V. 2. Outputs are terminated through a 50 Ω resistor to V_{CC} – 2.0 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. 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 V. З.

Table 6. 100EL SERIES NECL DC CHARACTERISTICS (V_{CC} = 0 V; V_{EE} = -5.0 V (Note 1))

		−40°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		25	30		25	30		29	35	mA
V _{OH}	Output HIGH Voltage (Note 2)	-1085	-1005	-880	-1025	-955	-880	-1025	-955	-880	mV
V _{OL}	Output LOW Voltage (Note 2)	-1830	-1695	-1555	-1810	-1705	-1620	-1810	-1705	-1620	mV
VIH	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 _{BB}	Output Voltage Reference	-1.38		-1.26	-1.38		-1.26	-1.38		-1.26	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V
I _{IH}	Input HIGH Current			150			150			150	μA
IIL	Input LOW Current	0.5			0.5			0.5			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.8 V / -0.5 V. 2. Outputs are terminated through a 50 Ω resistor to V_{CC}-2 volts.

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. 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 V.

		-40°C			25°C						
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Toggle Frequency	2.2	3.0		2.6	3.0		2.6	3.0		GHz
t _{PLH} t _{PHL}	Propagation Delay CLK to Q Reset to Q	360 390	500 540	640 690	420 440	510 540	600 640	450 450	540 550	630 650	ps
V _{PP}	Input Swing (Note 2)	150		1000	150		1000	150		1000	mV
t _{JITTER}	Cycle-to-Cycle Jitter		5.1			5.4			6.6		ps
t _r t _f	Output Rise/Fall Times Q (20% – 80%)	100	225	350	100	225	350	100	225	350	ps

Table 7. AC CHARACTERISTICS (V_{CC} = 5.0 V; V_{EE} = 0 V or V_{CC} = 0 V; V_{EE} = -5.0 V (Note 1))

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.

1. 10 Series: V_{EE} can vary +0.25 V / -0.5 V. 100 Series: V_{EE} can vary +0.8 V / -0.5 V.

2. V_{PP}(min) is minimum input swing for which AC parameters guaranteed. The device has a DC gain of ~40.

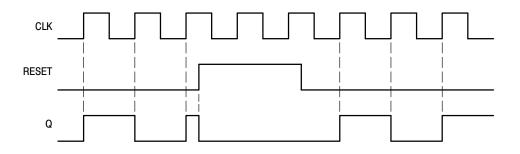
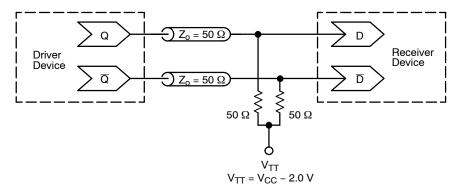


Figure 2. Timing Diagram





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

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

STYLES ON PAGE 2

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STYLE 1: PIN 1. EMITTER COLLECTOR 2. COLLECTOR 3. 4. EMITTER EMITTER 5. BASE 6. 7 BASE EMITTER 8. STYLE 5: PIN 1. DRAIN 2. DRAIN 3. DRAIN DRAIN 4. GATE 5. 6. GATE SOURCE 7. 8. SOURCE STYLE 9: PIN 1. EMITTER, COMMON COLLECTOR, DIE #1 COLLECTOR, DIE #2 2. З. EMITTER, COMMON 4. 5. EMITTER, COMMON 6 BASE. DIE #2 BASE, DIE #1 7. 8. EMITTER, COMMON STYLE 13: PIN 1. N.C. 2. SOURCE 3 GATE 4. 5. DRAIN 6. DRAIN DRAIN 7. DRAIN 8. STYLE 17: PIN 1. VCC 2. V2OUT V10UT З. TXE 4. 5. RXE 6. VFF 7. GND 8. ACC STYLE 21: CATHODE 1 PIN 1. 2. CATHODE 2 3 CATHODE 3 CATHODE 4 4. 5. CATHODE 5 6. COMMON ANODE COMMON ANODE 7. 8. CATHODE 6 STYLE 25: PIN 1. VIN 2 N/C REXT 3. 4. GND 5. IOUT 6. IOUT IOUT 7. 8. IOUT STYLE 29: BASE, DIE #1 PIN 1. 2 EMITTER, #1 BASE, #2 З. EMITTER, #2 4. 5 COLLECTOR, #2 COLLECTOR, #2 6.

STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 COLLECTOR, #2 3. 4 COLLECTOR, #2 BASE, #2 5. EMITTER, #2 6. 7 BASE #1 EMITTER, #1 8. STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN SOURCE 4. SOURCE 5. 6. GATE GATE 7. 8. SOURCE STYLE 10: PIN 1. GROUND BIAS 1 OUTPUT 2. З. GROUND 4. 5. GROUND 6 BIAS 2 INPUT 7. 8. GROUND STYLE 14: PIN 1. N-SOURCE 2. N-GATE P-SOURCE 3 P-GATE 4. P-DRAIN 5 6. P-DRAIN N-DRAIN 7. N-DRAIN 8. STYLE 18: PIN 1. ANODE 2. ANODE SOURCE 3. GATE 4. 5. DRAIN 6 DRAIN CATHODE 7. CATHODE 8. STYLE 22 PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC COMMON CATHODE/VCC 3 4. I/O LINE 3 5. COMMON ANODE/GND 6. I/O LINE 4 7. I/O LINE 5 COMMON ANODE/GND 8. STYLE 26: PIN 1. GND 2 dv/dt З. ENABLE 4. ILIMIT 5. SOURCE SOURCE 6. SOURCE 7. 8. VCC STYLE 30: DRAIN 1 PIN 1. DRAIN 1 2 GATE 2 З. SOURCE 2 4. SOURCE 1/DRAIN 2 SOURCE 1/DRAIN 2 5. 6.

STYLE 3: PIN 1. DRAIN, DIE #1 DRAIN, #1 2. DRAIN, #2 З. 4. DRAIN, #2 GATE, #2 5. SOURCE, #2 6. 7 GATE #1 8. SOURCE, #1 STYLE 7: PIN 1. INPUT 2. EXTERNAL BYPASS THIRD STAGE SOURCE GROUND З. 4. 5. DRAIN 6. GATE 3 SECOND STAGE Vd 7. FIRST STAGE Vd 8. STYLE 11: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. 3. GATE 2 4. 5. DRAIN 2 6. DRAIN 2 DRAIN 1 7. 8. DRAIN 1 STYLE 15: PIN 1. ANODE 1 2. ANODE 1 ANODE 1 3 ANODE 1 4. 5. CATHODE, COMMON CATHODE, COMMON CATHODE, COMMON 6. 7. CATHODE, COMMON 8. STYLE 19: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. 3. GATE 2 4. 5. DRAIN 2 6. MIRROR 2 DRAIN 1 7. 8. **MIRROR 1** STYLE 23: PIN 1. LINE 1 IN COMMON ANODE/GND COMMON ANODE/GND 2. 3 LINE 2 IN 4. LINE 2 OUT 5. COMMON ANODE/GND COMMON ANODE/GND 6. 7. LINE 1 OUT 8. STYLE 27: PIN 1. ILIMIT 2 OVI 0 UVLO З. 4. INPUT+ 5. SOURCE SOURCE 6. SOURCE 7. 8 DRAIN

DATE 16 FEB 2011

STYLE 4: ANODE ANODE PIN 1. 2. ANODE З. 4. ANODE ANODE 5. 6. ANODE 7 ANODE COMMON CATHODE 8. STYLE 8: PIN 1. COLLECTOR, DIE #1 2. BASE, #1 BASE #2 3. COLLECTOR, #2 4. COLLECTOR, #2 5. 6. EMITTER, #2 EMITTER, #1 7. 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE SOURCE 2. 3. 4. GATE 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 16: PIN 1. EMITTER, DIE #1 2. BASE, DIE #1 EMITTER, DIE #2 3 BASE, DIE #2 4. 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 COLLECTOR, DIE #1 7. COLLECTOR, DIE #1 8. STYLE 20: PIN 1. SOURCE (N) GATE (N) SOURCE (P) 2. 3. 4. GATE (P) 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 24: PIN 1. BASE 2. EMITTER 3 COLLECTOR/ANODE COLLECTOR/ANODE 4. 5. CATHODE 6. CATHODE COLLECTOR/ANODE 7. 8. COLLECTOR/ANODE STYLE 28: PIN 1. SW_TO_GND 2. DASIC OFF DASIC_SW_DET З. 4. GND 5. 6. V MON VBULK 7. VBULK 8 VIN

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COLLECTOR, #1

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