onsemi

3.3 V ECL Differential Clock D Flip-Flop

MC100LVEL51

Description

The MC100LVEL51 is a differential clock D flip-flop with reset. The device is functionally equivalent to the EL51 device, but operates from a 3.3 V supply. With propagation delays and output transition times essentially equal to the EL51, the LVEL51 is ideally suited for those applications which require the ultimate in AC performance at $3.3 \text{ V} \text{ V}_{CC}$.

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Table 1. PIN DESCRIPTION

PIN	FUNCTION
CLK, CLK	ECL Differential Clock Input
Q, Q	ECL Differential Output
D	ECL D Input
R	ECL Reset Input
V _{CC}	Positive Supp;y
V _{EE}	Negative Supply

Table 2. TRUTH TABLE

D	R	CLK	Q
L	L	Z	LHL
H	L	Z	
X	H	X	

Z = LOW to HIGH Transition

X = Don't Care

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Table 6. AC CHARACTERISTICS (V_{CC} = 3.3 V; V_{EE} = 0.0 V or V_{CC} = 0.0 V; V_{EE} = -3.3 V (Note 8))

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

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	MILLIN	IETERS	INCHES					
DIM	MIN	MAX	MIN	MAX				
Α	22:0	3.10	0.114	0.122				
В	-							

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