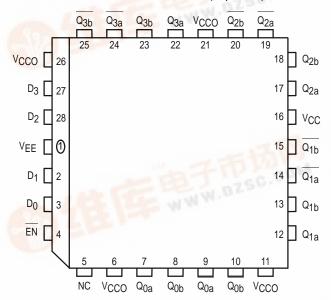
Quad Driver

The MC10E/100E112 is a quad driver with two pairs of OR/NOR outputs from each gate, and a common, buffered enable input. Using the data inputs the device can serve as an ECL memory address fan-out driver. Using just the enable input, the device serves as a clock driver, although the MC10E/100E111 is designed specifically for this purpose, and offers lower skew than the E112. For memory address driver applications where scan capabilities are required, please refer to the WWW.DZSC E212 device.

- 600ps Max. Propagation Delay
- Common Enable Input
- Extended 100E VEE Range of 4.2V to 5.46V
- 75kΩ Input Pulldown Resistors

Pinout: 28-Lead PLCC (Top View)



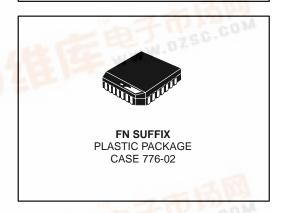
 $^{^{\}ast}$ All VCC and VCCO pins are tied together on the die.

PIN NAMES

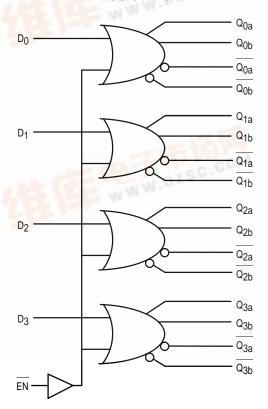
Pin	Function
$\frac{D_0 - D_3}{EN}$	Data Inputs
EN	Enable Input
Q _{na} , Q _{nb}	True Outputs
Q _{na} , Q _{nb}	Inverting Outputs

MC10E112 MC100E112

QUAD DRIVER



LOGIC DIAGRAM



MC10E112 MC100E112

DC CHARACTERISTICS (VEE = VEE(min) to VEE(max); VCC = VCCO = GND)

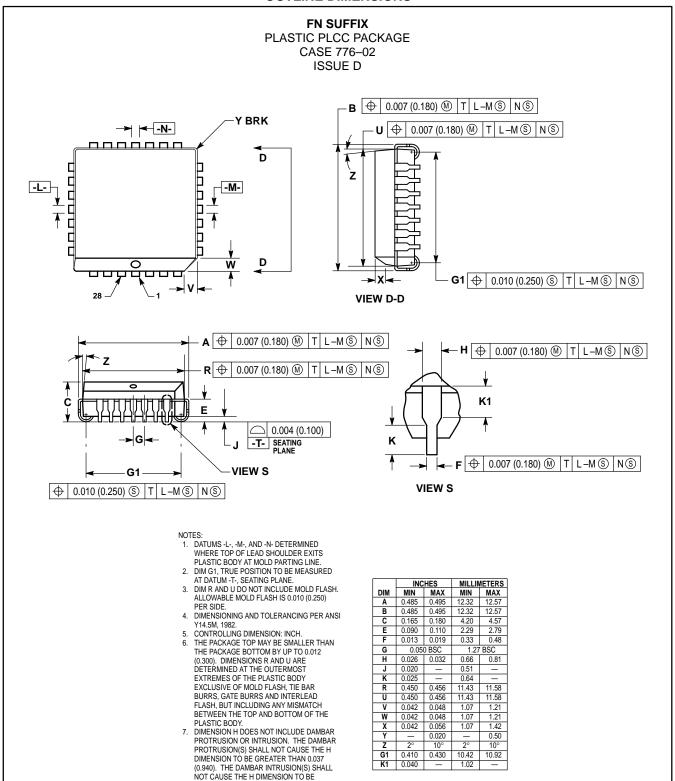
		0°C		25°C			85°C					
Symbol	Characteristic	min	typ	max	min	typ	max	min	typ	max	Unit	Condition
Iн	Input HIGH Current										μΑ	
	<u>D</u>			200	1		200			200		
	EN			200			200			200		
IEE	Power Supply Current										mA	
	10E		47	56	İ	47	56		47	56		
	100E		47	56		47	56		54	65		

AC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = V_{CCO} = GND$)

		0°C		25°C			85°C					
Symbol	Characteristic	min	typ	max	min	typ	max	min	typ	max	Unit	Condition
^t PLH	Propagation Delay to Output										ps	
^t PHL	<u>D</u>	200	400	600	200	400	600	200	400	600		
	EN	275	450	675	275	450	675	275	450	675		
tSKEW	Within-Device Skew										ps	
	Dn to Qn, Qn		80		l	80			80			1
	Qna to Qnb		40			40			40			2
t _r	Rise/Fall Times										ps	
t _f	20 - 80%	275	425	700	275	425	700	275	425	700		

Within-device skew is defined as identical transitions on similar paths through a device.
Skew defined between common OR or common NOR outputs of a single gate.

OUTLINE DIMENSIONS



SMALLER THAN 0.025 (0.635).

MC10E112 MC100E112

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