

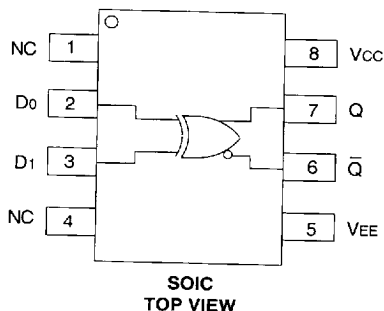
FEATURES

- 260ps propagation delay
- High bandwidth output transitions
- Internal 75K Ω input pull-down resistors
- ESD protection of 2000V

DESCRIPTION

The SY10/100EL07 are 2-input XOR/XNOR gates. These devices are functionally equivalent to the E107 devices, with higher performance capabilities. With propagation delays and output transition times significantly faster than the E107, the EL07 is ideally suited for those applications which require the ultimate in AC performance.

PIN CONFIGURATION/BLOCK DIAGRAM



PIN NAMES

Pin	Function
D0, D1	Data Inputs
Q	Data Outputs

PRODUCT ORDERING CODE

Ordering Code	Package Type	Operating Range
SY10EL07ZC	Z8-1	Commercial
SY10EL07ZCTR	Z8-1	Commercial
SY100EL07ZC	Z8-1	Commercial
SY100EL07ZCTR	Z8-1	Commercial

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DC ELECTRICAL CHARACTERISTICS

VEE = VEE (Min.) to VEE (Max.); VCC = GND

Symbol	Parameter	-40°C			0°C			+25°C			+85°C			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
IEE	Power Supply Current 10EL 100EL	—	14 14	17 17	11 11	14 14	17 17	11 11	14 14	17 17	11 13	14 16	17 20	mA
VEE	Power Supply Voltage 10EL 100EL	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	-4.75 -4.20	-5.2 -4.5	-5.5 -5.5	V
I _{IH}	Input HIGH Current D0 D1	— —	— —	250 150	— —	— —	250 150	— —	— —	250 150	— —	— —	250 150	μ A

AC ELECTRICAL CHARACTERISTICS

VEE = VEE (Min.) to VEE (Max.); VCC = GND

Symbol	Parameter	-40°C			0°C			+25°C			+85°C			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
t _{PLH} t _{PHL}	Propagation Delay to Output D	90	250	435	140	250	385	150	260	395	170	280	415	ps
t _r t _f	Output Rise/Fall Times Q (20% to 80%)	100	225	350	100	225	350	100	225	350	100	225	350	ps