NOT RECOMMENDED FOR NEW DESIGNS



LOW-IMPEDANCE DRIVER

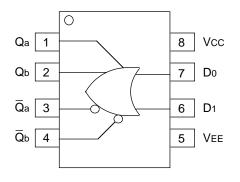
SY10EL12 SY100EL12

- 290ps propagation delay
- lacktriangle Dual outputs for 25 Ω drive applications
- Internal 75K Ω input pull-down resistors
- Available in 8-pin SOIC package

The SY10/100EL12 are low-impedance drive buffers. With two pairs of OR/NOR outputs, the devices are ideally suited for high drive applications such as memory addressing. These devices are functionally equivalent to the E112 devices, with higher performance capabilities. With propagation delays significantly faster than the E112, the EL12 is ideally suited for those applications which require the ultimate in AC performance.

Pin	Function					
Do, D1	Data Inputs					
Qa, Qb	Data Outputs					

Rev.: G Amendment: /0 Issue Date: March 2006



8-Pin SOIC (Z8-1)

Ordering Information⁽¹⁾

Part Number	Package Type	Operating Range	Package Marking	Lead Finish
SY10EL12ZC	Z8-1	Commercial	HEL12	Sn-Pb
SY10EL12ZCTR ⁽²⁾	Z8-1	Commercial	HEL12	Sn-Pb
SY100EL12ZC	Z8-1	Commercial	XEL12	Sn-Pb
SY100EL12ZCTR ⁽²⁾	Z8-1	Commercial	XEL12	Sn-Pb
SY10EL12ZI	Z8-1	Industrial	HEL12	Sn-Pb
SY10EL12ZITR ⁽²⁾	Z8-1	Industrial	HEL12	Sn-Pb
SY100EL12ZI	Z8-1	Industrial	XEL12	Sn-Pb
SY100EL12ZITR ⁽²⁾	Z8-1	Industrial	XEL12	Sn-Pb
SY10EL12ZG ⁽³⁾	Z8-1	Industrial	HEL12 with Pb-Free bar-line indicator	Pb-Free NiPdAu
SY10EL12ZGTR ^(2, 3)	Z8-1	Industrial	HEL12 with Pb-Free bar-line indicator	Pb-Free NiPdAu
SY100EL12ZG ⁽³⁾	Z8-1	Industrial	XEL12 with Pb-Free bar-line indicator	Pb-Free NiPdAu
SY100EL12ZGTR ^(2, 3)	Z8-1	Industrial	XEL12 with Pb-Free bar-line indicator	Pb-Free NiPdAu

Notes:

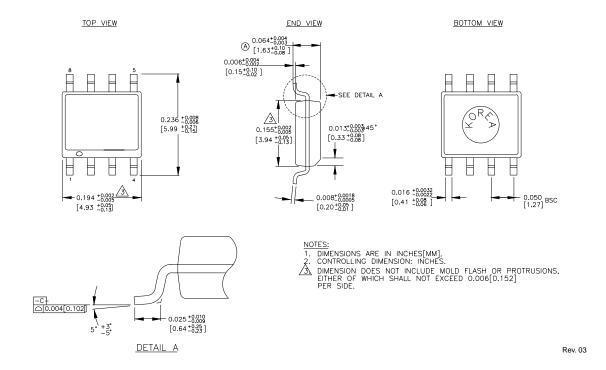
- 1. Contact factory for die availability. Dice are guaranteed at T_A = 25°C, DC Electricals only.
- 2. Tape and Reel.
- 3. Pb-Free package is recommended for new designs.

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

		TA = -40°C			TA = 0°C			TA = +25°C			TA = +85°C			
Symbol	Parameter	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
IEE	Power Supply Current													mA
	10EL		14	17	11	14	17	11	14	17	11	14	17	
	100EL	_	14	17	11	14	17	11	14	17	13	16	20	
VEE	Power Supply Voltage													V
	10EL	-4.75	-5.2	-5.5	-4.75	-5.2	-5.5	-4.75	− 5.2	-5.5	-4.75	-5.2	-5.5	
	100EL	-4.20	-4.5	− 5.5	-4.20	-4.5	-5.5	-4.20	-4.5	-5.5	-4.20	-4.5	-5.5	
IIН	Input HIGH Current	_	_	150	_	_	150	_	_	150	_	_	150	μΑ

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

		TA = -40°C			TA = 0°C			TA = +25°C			TA = +85°C			
Symbol	Parameter	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
tPLH tPHL	Propagation Delay to Output D	120	280	500	170	280	450	180	290	450	210	320	480	ps
tr tf	Output Rise/Fall Times Q (20% to 80%)	150	350	550	150	350	550	150	350	550	150	350	550	ps



MICREL, INC. 2180 FORTUNE DRIVE SAN JOSE, CA 95131 USA

TEL + 1 (408) 944-0800 FAX + 1 (408) 474-1000 WEB http://www.micrel.com

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