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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NOT RECOMMENDED FOR NEW DESIGNS



9-BIT BUFFER SY10E122 SY100E122

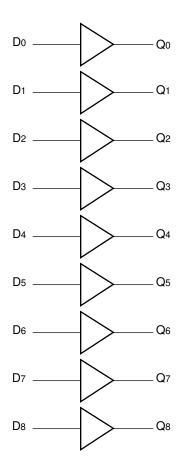
FEATURES

- 500ps max. propagation delay
- Extended 100E VEE range of -4.2V to -5.5V
- Fully compatible with industry standard 10KH, 100K I/O levels
- Internal 75K Ω input pulldown resistors
- Fully compatible with Motorola MC10E/100E122
- Available in 28-pin PLCC package

DESCRIPTION

The SY10/100E122 are 9-bit buffers designed for use in new, high-performance ECL systems. The E122 provides nine non-inverting buffers.

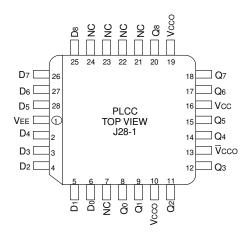
BLOCK DIAGRAM



PIN NAMES

Pin	Function						
Do-D8	Data Inputs						
Q0-Q8	Data Outputs						
Vcco	Vcc to Output						

PACKAGE/ORDERING INFORMATION



28-Pin PLCC (J28-1)

Ordering Information⁽¹⁾

Part Number	Package Type	Operating Range	Package Marking	Lead Finish
SY10E122JI	J28-1	Industrial	SY10E122JI	Sn-Pb
SY10E122JITR ⁽²⁾	J28-1	Industrial	SY10E122JI	Sn-Pb
SY100E122JI	J28-1	Industrial	SY100E122JI	Sn-Pb
SY100E122JITR ⁽²⁾	J28-1	Industrial	SY100E122JI	Sn-Pb
SY10E122JC	J28-1	Commercial	SY10E122JC	Sn-Pb
SY10E122JCTR ⁽²⁾	J28-1	Commercial	SY10E122JC	Sn-Pb
SY100E122JC	J28-1	Commercial	SY100E122JC	Sn-Pb
SY100E122JCTR ⁽²⁾	J28-1	Commercial	SY100E122JC	Sn-Pb
SY10E122JY ⁽³⁾	J28-1	Industrial	SY10E122JY with Pb-Free bar-line indicator	Matte-Sn
SY10E122JYTR ^(2, 3)	J28-1	Industrial	SY10E122JY with Pb-Free bar-line indicator	Matte-Sn
SY100E122JY ⁽³⁾	J28-1	Industrial	SY100E122JY with Pb-Free bar-line indicator	Matte-Sn
SY100E122JYTR ^(2, 3)	J28-1	Industrial	SY100E122JY with Pb-Free bar-line indicator	Matte-Sn

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.

DC ELECTRICAL CHARACTERISTICS

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

		TA = -40°C			T	TA = 0°C			TA = +25°C			Ta = +85°C		
Symbol	Parameter	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Iн	Input HIGH Current	_	_	200	_	_	200	_	_	200	_	_	200	μΑ
IEE	Power Supply Current													mA
	10E	l —	41	49	—	41	49	—	41	49	l —	41	49	
	100E	l —	41	49	—	41	49	—	41	49	—	47	57	

AC ELECTRICAL CHARACTERISTICS

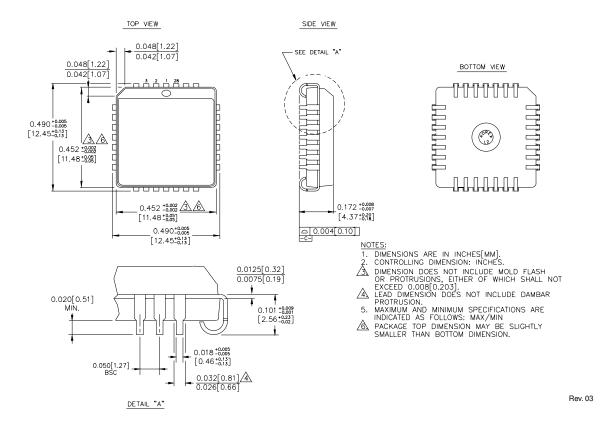
VEE = VEE (Min.) to VEE (Max.); VCC = VCCO = GND

		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
tPD	Propagation Delay to D to Q	150	350	500	150	350	500	150	350	500	150	350	500	ps
tskew	Within-Device Skew D to Q ⁽¹⁾		75	_	_	75	_	_	75			75	_	ps
tr tf	Rise/Fall Time 20% to 80%	300	425	800	300	425	800	300	425	800	300	425	800	ps

Note:

^{1.} Within-device skew is defined as identical transitions on similar paths through a device.

28-PIN PLCC (J28-1)



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