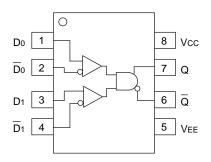
PACKAGE/ORDERING INFORMATION



8-Pin SOIC (Z8-1)

Ordering Information⁽¹⁾

Part Number	Package Type	Operating Range	Package Marking	Lead Finish	
SY10EL05ZC	Z8-1	Commercial	HEL05	Sn-Pb	
SY10EL05ZCTR ⁽²⁾	Z8-1	Commercial	HEL05	Sn-Pb	
SY100EL05ZC	Z8-1	Commercial	XEL05	Sn-Pb	
SY100EL05ZCTR ⁽²⁾	Z8-1	Commercial	XEL05	Sn-Pb	
SY10EL05ZI	Z8-1	Industrial	HEL05	Sn-Pb	
SY10EL05ZITR ⁽²⁾	Z8-1	Industrial	HEL05	Sn-Pb	
SY100EL05ZI	Z8-1	Industrial	XEL05	Sn-Pb	
SY100EL05ZITR ⁽²⁾	Z8-1	Industrial	XEL05	Sn-Pb	
SY10EL05ZG ⁽³⁾	Z8-1	Industrial	HEL05 with Pb-Free bar-line indicator	Pb-Free NiPdAu	
SY10EL05ZGTR ^(2, 3)	Z8-1	Industrial	HEL05 with Pb-Free bar-line indicator	Pb-Free NiPdAu	
SY100EL05ZG ⁽³⁾	Z8-1	Industrial	XEL05 with Pb-Free bar-line indicator	Pb-Free NiPdAu	
SY100EL05ZGTR ^(2, 3)	Z8-1	Industrial	XEL05 with Pb-Free bar-line indicator	Pb-Free NiPdAu	

Notes:

1. Contact factory for die availability. Dice are guaranteed at $T_A = 25^{\circ}C$, 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 = GND

		TA = −40°C			Т	ΓA = 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	—	18	22	14	18	22	14	18	22	14	18	22	
	100EL	_	18	22	14	18	22	14	18	22	16	21	25	
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	
Ін	Input HIGH Current	_	_	150	_	_	150	_	_	150	_		150	μA

AC ELECTRICAL CHARACTERISTICS

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

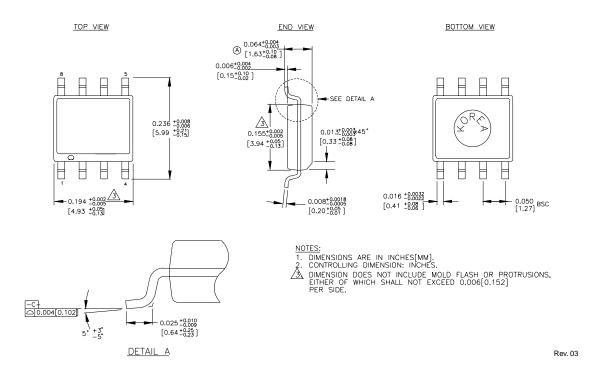
		TA = -40°C			TA = 0°C			TA = +25°C			TA = +85°C			
Symbol	Parameter	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
tPD	Propagation Delay to Output D	135	260	440	185	275	390	185	275	390	215	305	420	ps
Vpp	Minimum Input Swing ⁽¹⁾	150		_	150	_		150		_	150			mV
VCMR	Common Mode Range ⁽²⁾	(2)	—	-0.4	(2)	_	-0.4	(2)	_	-0.4	(2)		-0.4	V
tr tf	Output Rise/Fall Times Q (20% to 80%)	100	225	350	100	225	350	100	225	350	100	225	350	ps

NOTES:

1. Minimum input swing for which AC parameters are guaranteed. The device has a DC gain of \approx 40.

2. The CMR range is referenced to the most positive side of the differential input signal. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between VPP min. and 1V. The lower end of the CMR range is dependent on VEE and is equal to VEE + 3.0V.

8-PIN SOIC .150" WIDE (Z8-1)



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