

DC ELECTRICAL CHARACTERISTICSV_{EE} = V_{EE} (Min.) to V_{EE} (Max.); V_{CC} = GND

Symbol	Parameter	T _A = -40°C			T _A = 0°C			T _A = +25°C			T _A = +85°C			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
I _{EE}	Power Supply Current													mA
	10EL	—	27	32	—	27	32	—	27	32	—	27	32	
	100EL	—	27	32	—	27	32	—	27	32	—	32	37	
V _{EE}	Power Supply Voltage													V
	10EL	—	-5.2	—	-4.75	-5.2	-5.5	-4.75	-5.2	-5.5	-4.75	-5.2	-5.5	
	100EL	—	-4.5	—	-4.20	-4.5	-5.5	-4.20	-4.5	-5.5	-4.20	-4.5	-5.5	
I _{IH}	Input HIGH Current	—	—	150	—	—	150	—	—	150	—	—	150	μA

AC ELECTRICAL CHARACTERISTICSV_{EE} = V_{EE} (Min.) to V_{EE} (Max.); V_{CC} = GND

Symbol	Parameter	T _A = -40°C			T _A = 0°C			T _A = +25°C			T _A = +85°C			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
f _{MAX}	Maximum Toggle Frequency	1.4	2.0	—	1.8	2.2	—	1.8	2.2	—	1.8	2.2	—	GHz
t _{PLH} t _{PHL}	Propagation Delay to Output	290 225	515 450	—	340 275	515 450	690 625	350 275	525 450	700 625	395 350	570 525	745 700	ps
t _S	Set-up Time	150	0	—	150	0	—	150	0	—	150	0	—	ps
t _H	Hold Time	250	100	—	250	100	—	250	100	—	250	100	—	ps
t _{RR}	Reset Recovery	400	200	—	400	200	—	400	200	—	400	200	—	ps
t _{PW}	Minimum Pulse Width CLK, Reset	400	—	—	400	—	—	400	—	—	400	—	—	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

PRODUCT ORDERING CODE

Ordering Code	Package Type	Operating Range	Marking Code
SY10EL35ZC	Z8-1	Commercial	HEL35
SY10EL35ZCTR*	Z8-1	Commercial	HEL35
SY100EL35ZC	Z8-1	Commercial	XEL35
SY100EL35ZCTR*	Z8-1	Commercial	XEL35

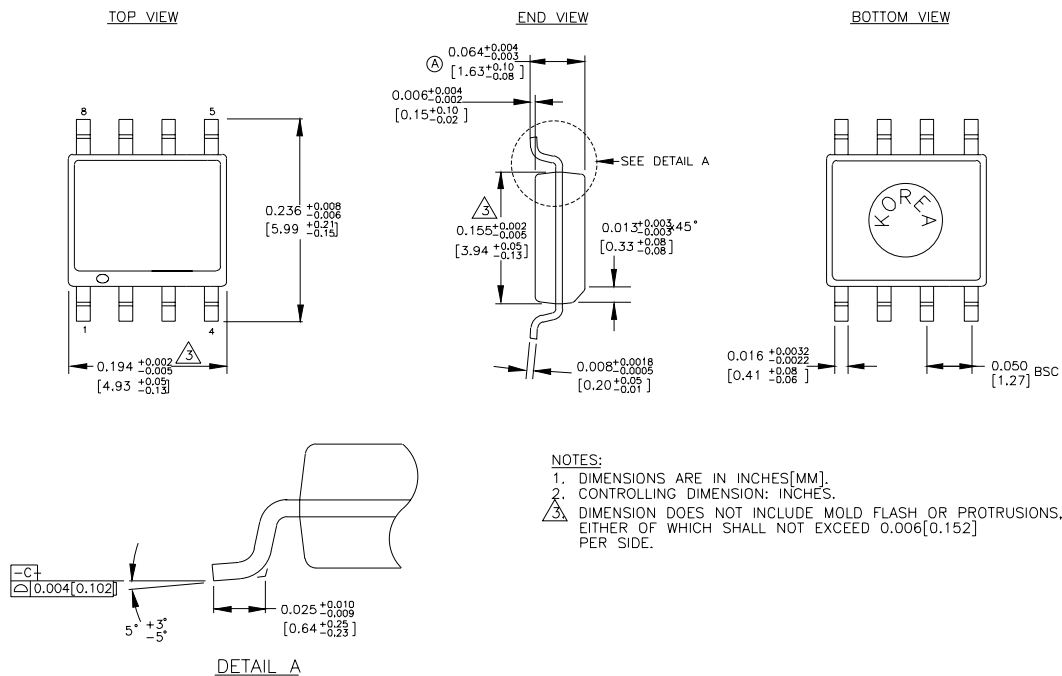
*Tape and Reel

Note 1. Recommended for new designs.

Ordering Code	Package Type	Operating Range	Marking Code
SY10EL35ZI ⁽¹⁾	Z8-1	Industrial	HEL35
SY10EL35ZITR* ⁽¹⁾	Z8-1	Industrial	HEL35
SY100EL35ZI ⁽¹⁾	Z8-1	Industrial	XEL35
SY100EL35ZITR* ⁽¹⁾	Z8-1	Industrial	XEL35

*Tape and Reel

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



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