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MC10EL57, MC100EL57

Table 1. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	75 K Ω
Internal Input Pullup Resistor	N/A
ESD Protection Human Body Model Machine Model Charge Device Model	> 1 kV > 100 V > 2 kV
Moisture Sensitivity (Note 1)	Level 1
Flammability Rating Oxygen Index: 28 to 34	UL 94 V 0 @ 0.125 in
Transistor Count	109 Devices
Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	

1. For additional Moisture Sensitivity information, refer to Application Note [AND8003/D](#).

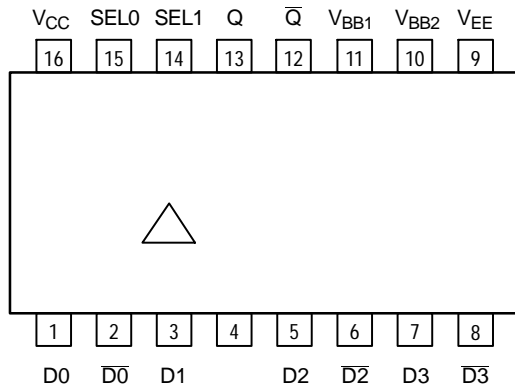


Figure 1. Logic Diagram and Pinout Assignment

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Table 4. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V_{CC}	PECL Mode Power Supply	$V_{EE} = 0\text{ V}$		8	V
V_{EE}	NECL Mode Power Supply	$V_{CC} = 0\text{ V}$		8	V
V_I	PECL Mode Input Voltage NECL Mode Input Voltage	$V_{EE} = 0\text{ V}$ $V_{CC} = 0\text{ V}$	$V_I \leq V_{CC}$ $V_I \geq V_{EE}$	6 6	V
I_{out}	Output Current	Continuous			

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Table 8. 100EL SERIES NECL DC CHARACTERISTICS ($V_{CC} = 0\text{ V}$; $V_{EE} = 5.0\text{ V}$ (Note 1))

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
I_{EE}	Power Supply Current			24			24			27	mA
V_{OH}	Output HIGH Voltage (Note 2)	1085	1005	880	1025	955	880	1025	955	880	mV
V_{OL}	Output LOW Voltage (Note 2)	1830	1695	1555	1810	1705	1620	1810	1705	1620	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	1165		880	1165		880	1165		880	mV
V_{IL}	Input LOW Voltage (Single-Ended)	1810		1475	1810		1475	1810		1475	mV
V_{BB}	Output Voltage Reference	1.38		1.26	1.38		1.26	1.38		1.26	V
V_{IHCMR}	Input HIGH Voltage Common Mode RafBT8 0 0 8 102.41 597.tial.10nfiguration304 .90c.000										

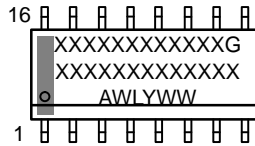
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SOIC-16 9.90x3.90x1.50 1.27P
CASE 751B
ISSUE L

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DATE 29 MAY 2024

**GENERIC
MARKING DIAGRAM***



XXXXX = Specific Device Code
A = Assembly Location
WL = Wafer Lot
Y = Year
WW = Work Week
G = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

<p>S 1: 1. C C ✓ 2. BAS ✓ 3. ✓ 4. C C ✓ 5. ✓ 6. BAS ✓ 7. C C ✓ 8. C C ✓ 9. BAS ✓ 10. ✓ 11. C C ✓ 12. ✓ 13. BAS ✓ 14. C C ✓ 15. ✓ 16. C C ✓</p>	<p>S 2: 1. CA ✓ 2. A ✓ 3. C C ✓ 4. CA ✓ 5. CA ✓ 6. C C ✓ 7. A ✓ 8. CA ✓ 9. CA ✓ 10. A ✓ 11. C C ✓ 12. CA ✓ 13. CA ✓ 14. C C ✓ 15. A ✓ 16. CA ✓</p>	<p>S 3: 1. C C , #1 ✓ 2. BAS , #1 ✓ 3. , #1 ✓ 4. C C , #1 ✓ 5. C C , #2 ✓ 6. BAS , #2 ✓ 7. , #2 ✓ 8. C C , #2 ✓ 9. C C , #3 ✓ 10. BAS , #3 ✓ 11. , #3 ✓ 12. C C , #3 ✓ 13. C C , #4 ✓ 14. BAS , #4 ✓ 15. , #4 ✓ 16. C C , #4 ✓</p>	<p>S 4: 1. C C , #1 ✓ 2. C C , #1 ✓ 3. C C , #2 ✓ 4. C C , #2 ✓ 5. C C , #3 ✓ 6. C C , #3 ✓ 7. C C , #4 ✓ 8. C C , #4 ✓ 9. BAS , #4 ✓ 10. , #4 ✓ 11. BAS , #3 ✓ 12. BAS , #3 ✓ 13. BAS , #2 ✓ 14. , #2 ✓ 15. BAS , #1 ✓ 16. , #1 ✓</p>
<p>S 5: 1. A , #1 ✓ 2. A , #1 ✓ 3. A , #2 ✓ 4. A , #2 ✓ 5. A , #3 ✓ 6. A , #3 ✓ 7. A , #4 ✓ 8. A , #4 ✓ 9. A , #4 ✓ 10. S C , #4 ✓ 11. A , #3 ✓ 12. S C , #3 ✓ 13. A , #2 ✓ 14. S C , #2 ✓ 15. A , #1 ✓ 16. S C , #1 ✓</p>	<p>S 6: 1. CA ✓ 2. CA ✓ 3. CA ✓ 4. CA ✓ 5. CA ✓ 6. CA ✓ 7. CA ✓ 8. CA ✓ 9. A ✓ 10. A ✓ 11. A ✓ 12. A ✓ 13. A ✓ 14. A ✓ 15. A ✓ 16. A ✓</p>	<p>S 7: 1. S C -C ✓ 2. C A () ✓ 3. C A () ✓ 4. A -C ✓ 5. C A () ✓ 6. C A () ✓ 7. C A () ✓ 8. S C -C ✓ 9. S C -C ✓ 10. C A () ✓ 11. C A () ✓ 12. C A () ✓ 13. A -C ✓ 14. C A () ✓ 15. C A () ✓ 16. S C -C ✓</p>	

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