

## Product Preview

# 1:2 Fanout Differential PECL to TTL Translator

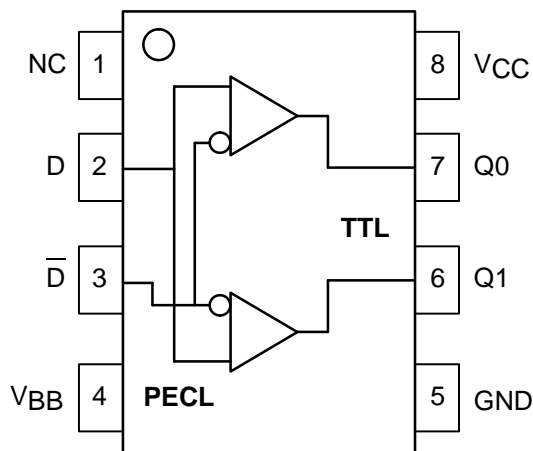
The MC10ELT/100ELT26 is a 1:2 fanout differential PECL to TTL translator. Because PECL (Positive ECL) levels are used only +5V and ground are required. The small outline 8-lead SOIC package and the 1:2 fanout design of the ELT23 makes it ideal for applications which require the low skew duplication of a signal in a tightly packed PC board. Because the mature MOSAIC 1.5 process is used, low cost can be added to the list of features.

The  $V_{BB}$  output allows the ELT26 to also be used in a single-ended input mode. In this mode the  $V_{BB}$  output is tied to the IN input for a non-inverting buffer or the IN input for an inverting buffer. If used the  $V_{BB}$  pin should be bypassed to ground via a  $0.01\mu F$  capacitor.

The ELT26 is available in both ECL standards: the 10ELT is compatible with positive MECL 10H logic levels while the 100ELT is compatible with positive ECL 100K logic levels.

- 3.5ns Typical Propagation Delay
- <math>500ps</math> Typical Output to Output Skew
- Differential PECL Inputs
- Small Outline SOIC Package
- 24mA TTL Outputs
- Flow Through Pinouts

### LOGIC DIAGRAM AND PINOUT ASSIGNMENT



## MC10ELT26 MC100ELT26



**D SUFFIX**  
PLASTIC SOIC PACKAGE  
CASE 751-05

### PIN DESCRIPTION

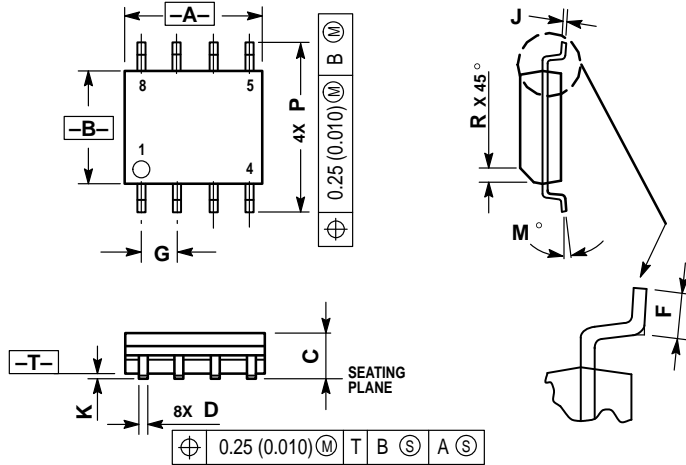
PIN	FUNCTION
Qn	TTL Outputs
D	Diff PECL Input
$V_{CC}$	+5.0V Supply
$V_{BB}$	Reference Output
GND	Ground

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OUTLINE DIMENSIONS


D SUFFIX  
PLASTIC SOIC PACKAGE  
CASE 751-05  
ISSUE P



NOTES:

1. DIMENSIONS A AND B ARE DATUMS AND T IS A DATUM SURFACE.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
3. DIMENSIONS ARE IN MILLIMETER.
4. DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
6. DIMENSION D DOES NOT INCLUDE MOLD PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

DIM	MILLIMETERS	
	MIN	MAX
A	4.80	5.00
B	3.80	4.00
C	1.35	1.75
D	0.35	0.49
F	0.40	1.25
G	1.27 BSC	
J	0.18	0.25
K	0.10	0.25
M	0°	7°
P	5.80	6.20
R	0.25	0.50

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