

ADVANCE INFORMATION

54FCT/74FCT521 8-Bit Identity Comparator

General Description

The 'FCT521 is an expandable 8-bit comparator. It compares two words of up to eight bits each and provides a LOW output when the two words match bit for bit. The expansion input $\bar{I}_{A}=B$ also serves as an active LOW enable input.

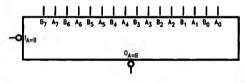
FACTTM FCT utilizes NSC quiet series technology to provide improved quiet output switching and dynamic threshold performance.

FACT FCT features GTO™ output control and undershoot corrector in addition to a split ground bus for superior performance.

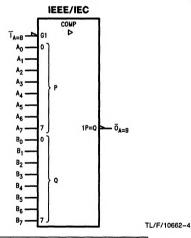
Features

- NSC 54FCT/74FCT521 is pin and functionally equivalent to IDT 54FCT/74FCT521
- Expandable to any word length
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- I_{OL} = 48 mA (Com), 32 mA (Mil)
- CMOS power levels
- 4 kV minimum ESD immunity
- Military Product compliant to MIL-STD 883

Logic Symbols



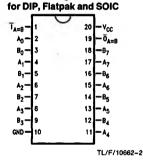
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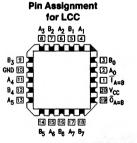


Pin Names	Description
A ₀ -A ₇	Word A Inputs
B ₀ -B ₇	Word B Inputs
$T_{A} = B$ $\overline{O}_{A} = B$	Expansion or Enable Input Identity Output

Connection Diagrams

Pin Assignment





TL/F/10662-3