

54FCT/74FCT521A

8-Bit Identity Comparator

General Description

The 'FCT521A 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.

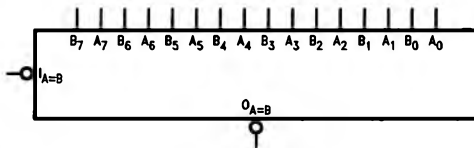
FACT™ FCTA utilizes NSC quiet series technology to provide improved quiet output switching and dynamic threshold performance.

FACT FCTA features undershoot correction and split ground bus for superior performance.

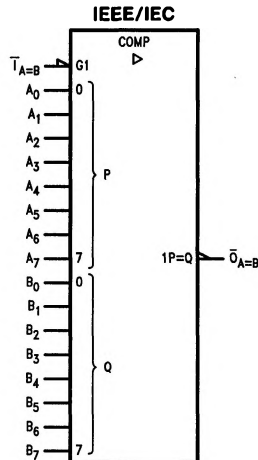
Features

- NSC 54FCT/74FCT521A is pin and functionally equivalent to IDT 54FCT/74FCT521A
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- $I_{OL} = 48 \text{ mA (Com)}, 32 \text{ mA (Mil)}$
- CMOS power levels
- 4 kV minimum ESD immunity
- Military Product compliant to MIL-STD 883

Logic Symbols



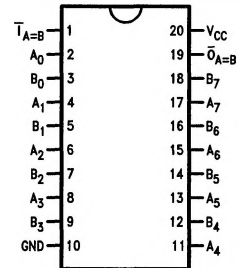
TL/F/10663-1



TL/F/10663-3

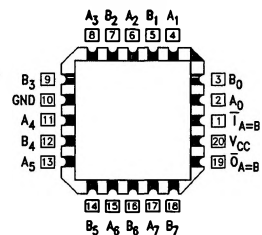
Connection Diagrams

Pin Assignment for DIP, Flatpak and SOIC



TL/F/10663-2

Pin Assignment for LCC



TL/F/10663-4

Pin Names	Description
A ₀ -A ₇	Word A Inputs
B ₀ -B ₇	Word B Inputs
$\bar{I}_A = B$	Expansion or Enable Input
$\bar{O}_A = B$	Identity Output