



54FCT/74FCT823A • 54FCT/74FCT823B

9-Bit D Flip-Flop

General Description

The 'FCT823A/B is a 9-bit buffered register. It features Clock Enable and Clear which are ideal for parity bus interfacing in high performance microprogramming systems.

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

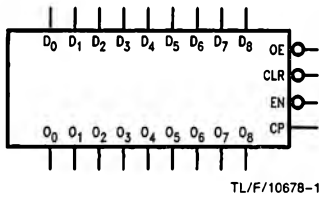
FACT FCTA features GTOTM output control and undershoot corrector in addition to a split ground bus for superior performance.

FACT FCTB features an undershoot corrector in addition to a split ground bus for superior performance.

Features

- NSC 54FCT/74FCT823A/B is pin and functionally equivalent to IDT 54FCT/74ACT823A/B
- High speed parallel registers with positive edge-triggered D-type flip-flop
- Buffered common clock enable (\overline{EN}) and asynchronous clear input (CLR)
- 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

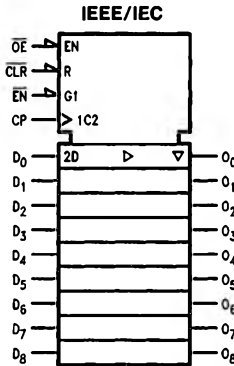
Logic Symbols



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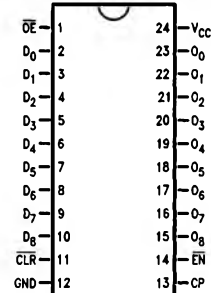
Pin Names	Description
D ₀ -D ₈	Data Inputs
O ₀ -O ₈	Data Outputs
\overline{OE}	Output Enable
\overline{CLR}	Clear
CP	Clock Input
\overline{EN}	Clock Enable

Connection Diagrams



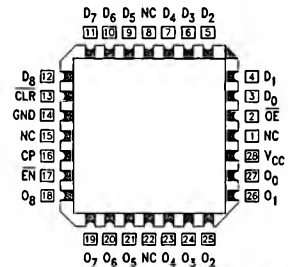
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Pin Assignment for DIP, Flatpak and SOIC



TL/F/10678-3

Pin Assignment for LCC



TL/F/10678-4