

# 54FCT/74FCT825A • 54FCT/74FCT825B

## 8-Bit D Flip-Flop

### General Description

The FCT825A/B is an 8-bit buffered register. They have Clock Enable and Clear features which are ideal for parity bus interfacing in high performance microprogramming systems. Also included are multiple enables that allow multi-use control of the interface.

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

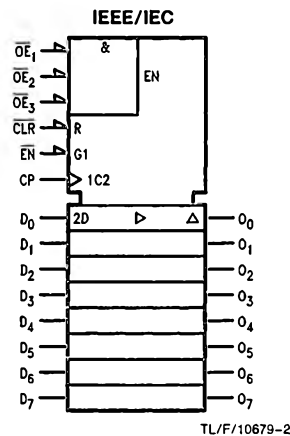
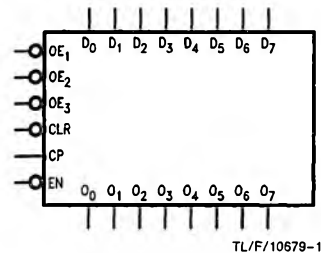
FACT FCTA features GTO™ output control and undershoot corrector in addition to a split ground bus for superior performance.

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

### Features

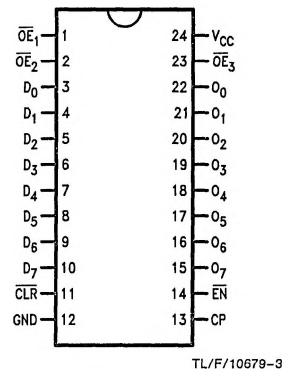
- NSC 54FCT/74FCT825A/B is pin and functionally equivalent to IDT 54FCT/74FCT825A/B
- High-speed parallel registers with positive edge-triggered D-type flip flops
- Buffered common clock enable ( $\overline{EN}$ ) and asynchronous Clear input (CLR)
- Input clamp diodes to limit bus reflections
- TTL/CMOS 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

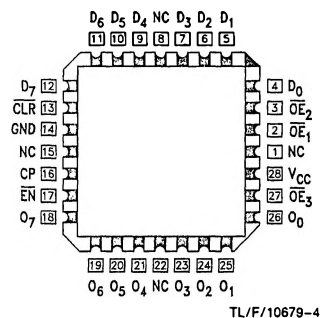


### Connection Diagrams

Pin Assignment for DIP, Flatpak and SOIC



Pin Assignment for LCC



Pin Names	Description
D <sub>0</sub> -D <sub>7</sub>	Data Inputs
O <sub>0</sub> -O <sub>7</sub>	Data Outputs
$\overline{OE}_1, \overline{OE}_2, \overline{OE}_3$	Output Enables
EN	Clock Enable
CLR	Clear
CP	Clock Input