

54FCT/74FCT845A • 54FCT/74FCT845B 8-Bit Transparent Latch with TRI-STATE® Outputs

General Description

The 'FCT845A/B bus interface latch is designed to eliminate the extra packages required to buffer existing latches and provide easy expansion through multiple $\overline{OE}$ controls.

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

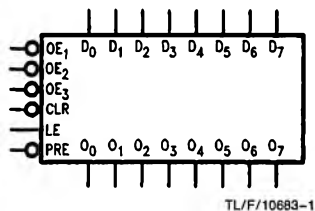
FACT FCTA features GTOT™ output control and undershoot corrector in addition to a split ground bus for superior performance.

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

Features

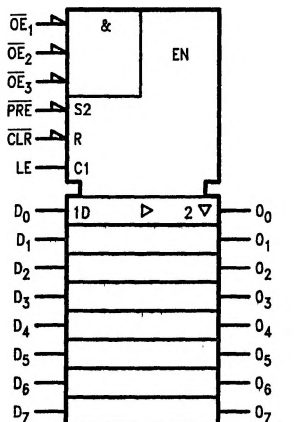
- NSC 54FCT/74FCT845A/B is pin and functionally equivalent to IDT 54FCT/74FCT845A/B
- High speed parallel latches
- Buffered common latch enable, clear and preset input
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- $I_{OL} = 48\text{ mA (Com)}, 32\text{ mA (Mil)}$
- CMOS power levels
- 4 kV minimum ESD Immunity
- Military product compliant to MIL-STD 883

Logic Symbols



TL/F/10683-1

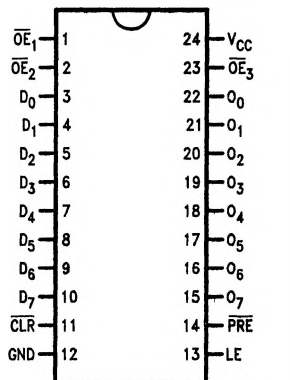
Pin Names	Description
D ₀ -D ₇	Data Inputs
Q ₀ -Q ₇	Data Outputs
$\overline{OE}_1$ - $\overline{OE}_3$	Output Enables
LE	Latch Enable
$\overline{CLR}$	Clear
$\overline{PRE}$	Preset



TL/F/10683-2

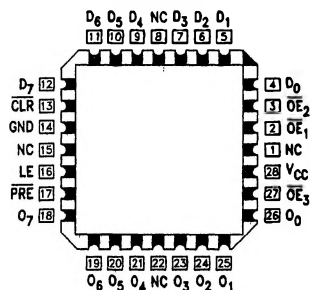
Connection Diagrams

**Pin Assignment
for DIP, Flatpak and SOIC**



TL/F/10683-3

**Pin Assignment
for LCC**



TL/F/10683-4