



## 54FCT/74FCT646A

### Octal Transceiver/Register with TRI-STATE® Outputs

#### General Description

The FCT646A consist of registered bus transceiver circuits, with outputs, D-type flip-flops and control circuitry providing multiplexed transmission of data directly from the input bus or from the internal storage registers. Data on the A or B bus will be loaded into the respective registers on the LOW-to-HIGH transition of the appropriate clock pin (CPAB or CPBA).

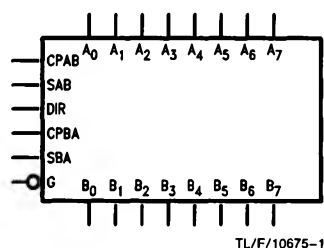
FACT™ FCTA utilizes NSC quiet series technology to provide improved quiet output switching and dynamic threshold performance.

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

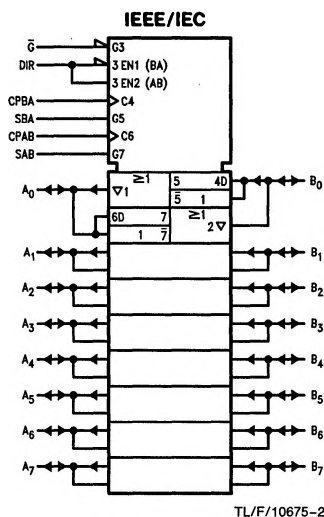
#### Features

- NSC 54FCT/74FCT646A is pin and functionally equivalent to IDT 54FCT/74FCT646A
- Independent registers for A and B buses
- Multiplexed real-time and stored data transfers
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- $I_{OL} = 64 \text{ mA (Com)}, 48 \text{ mA (Mil)}$
- CMOS power levels
- 4 kV minimum ESD immunity
- Military Product compliant to MIL-STD 883

#### Logic Symbols

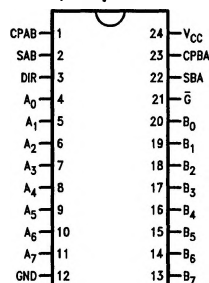


Pin Names	Description
A <sub>0</sub> –A <sub>7</sub>	Data Register A Inputs
	Data Register A Outputs
B <sub>0</sub> –B <sub>7</sub>	Data Register B Inputs
	Data Register B Outputs
CPAB, CPBA	Clock Pulse Inputs
SAB, SBA	Transmit/Receive Inputs
G	Output Enable Input
DIR	Direction Control Input



#### Connection Diagrams

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



##### Pin Assignment for LCC and PCC

