

## CY54/74FCT2373T CY54/74FCT2573T

## Features

- Function and pinout compatible with the fastest bipolar logic
- 25Ω output series resistors to reduce transmission line reflection noise
- FCT-C speed at 4.7 ns max. (Com'l) FCT-A speed at 5.2 ns max. (Com'l)
- Reduced V<sub>OH</sub> (typically=3.3V) versions of equivalent FCT functions
- Edge-rate control circuitry for significantly improved noise characteristics
- Power-off disable feature
- Matched rise and fall times

- Fully compatible with TTL input and output logic levels
- 12 mA (Com'l), • Sink current 12 mA (Mil) 15 mA (Com'i),
  - Source current
- 12 mA (Mil) **Functional Description**

The FCT2373T and FCT2573T are 8-bit, high-speed CMOS TTL-compatible buffered latches with three-state outputs that are ideal for driving high-capacitance loads, such as memory and address buffers. On-chip  $25\Omega$  termination resistors have been added to the outputs to reduce FCT373T, and FCT2573T to replace FCT573T to reduce noise in an existing design.

8-Bit Latches

When latch enable (LE) is HIGH, the flip-flops appear transparent to the data. Data that meets the required set-up times are latched when LE transitions from HIGH to LOW. Data appears on the bus when the output enable  $(\overline{OE})$  is LOW. When output enable is HIGH, the bus output is in the high impedance state. In this mode, data can still be entered into the latches.

The outputs are designed with a power-

• ESD > 2000

off disable feature to allow for live insersystem noise caused by reflections. tion of boards. FCT2373T can be used to replace





9-140