



## MM54C373/MM74C373 TRI-STATE® Octal D-Type Latch MM54C374/MM74C374 TRI-STATE Octal D-Type Flip-Flop

### General Description

The MM54C373/MM74C373, MM54C374/MM74C374 are integrated, complementary MOS (CMOS), 8-bit storage elements with TRI-STATE outputs. These outputs have been specially designed to drive high capacitive loads, such as one might find when driving a bus, and to have a fan out of 1 when driving standard TTL. When a high logic level is applied to the OUTPUT DISABLE input, all outputs go to a high impedance state, regardless of what signals are present at the other inputs and the state of the storage elements.

The MM54C373/MM74C373 is an 8-bit latch. When  $\overline{\text{LATCH ENABLE}}$  is high, the Q outputs will follow the D inputs. When  $\overline{\text{LATCH ENABLE}}$  goes low, data at the D inputs, which meets the set-up and hold time requirements, will be retained at the outputs until  $\overline{\text{LATCH ENABLE}}$  returns high again.

The MM54C374/MM74C374 is an 8-bit, D-type, positive-edge triggered flip-flop. Data at the D inputs, meeting the set-up and hold time requirements, is transferred to the Q outputs on positive-going transitions of the CLOCK input.

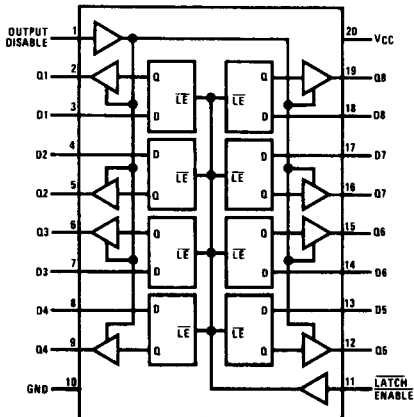
Both the MM54C373/MM74C373 and the MM54C374/MM74C374 are being assembled in 20-pin dual-in-line packages with 0.300" pin centers.

### Features

- Wide supply voltage range 3V to 15V
- High noise immunity 0.45  $V_{CC}$  (typ.)
- Low power consumption
- TTL compatibility Fan out of 1  
driving standard TTL
- Bus driving capability
- TRI-STATE outputs
- Eight storage elements in one package
- Single  $\overline{\text{CLOCK/LATCH ENABLE}}$  and OUTPUT DISABLE control inputs
- 20-pin dual-in-line package with 0.300" centers takes half the board space of a 24-pin package

### Connection Diagrams

MM54C373/MM74C373  
Dual-In-Line Package

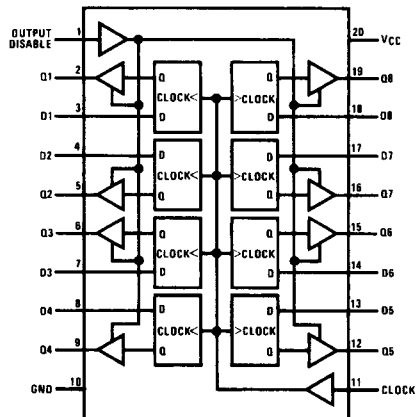


TL/F/5906-1

Top View

Order Number MM54C373\* or MM74C373\*

MM54C374/MM74C374  
Dual-In-Line Package



TL/F/5906-2

Top View

Order Number MM54C374\* or MM74C374\*

\*Please look into Section 8, Appendix D for availability of various package types.