# 54AC174/54ACT174 Hex D Flip-Flop with Master Reset

#### **General Description**

The 'AC/'ACT174 is a high-speed hex D flip-flop. The device is used primarily as a 6-bit edge-triggered storage register. The information on the D inputs is transferred to storage during the LOW-to-HIGH clock transition. The device has a Master Reset to simultaneously clear all flip-flops.

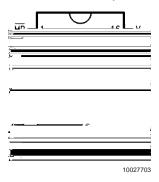
- 'ACT174 has TTL-compatible inputs
- Standard Microcircuit Drawing (SMD)
  - 54AC174: 5962-87626
  - 54ACT174: 5962-87757
- 54AC174 now qualified to 300Krad RHA designation, refer to the SMD for more information

#### **Features**

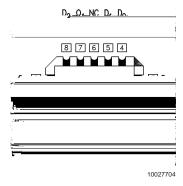
- I<sub>CC</sub> reduced by 50%
- Outputs source/sink 24 mA

## **Connection Diagrams**

Pin Assignment for DIP and Flatpak



## Pin Assignment for LCC



## **Functional Description**

The 'AC/'ACT174 consists of six edge-triggered D flip-flops with individual D inputs and Q outputs. The Clock (CP) and Master Reset (MR) are common to all flip-flops. Each D input's state is transferred to the corresponding flip-flop's output following the LOW-to-HIGH Clock (CP) transitioncons3(s)Ds LOW-43132[(inpuW-43132[(the)43132[(Master)43132[(Reset)43132[(MR))43132[wiall)43132[(foche)43132[aall

**Absolute Maximum Ratings** 

## **AC Electrical Characteristics**

## **AC Operating Requirements**

		54ACT	
	V <sub>cc</sub>		

