

## 製品概要

### MC74VHC574: Octal D Flip-Flop with 3-State Outputs

技術情報は、データシートをご参照ください。

The MC74VHC574 is an advanced high speed CMOS octal flip-flop with 3-state output fabricated with silicon gate CMOS technology. It achieves high speed operation similar to equivalent Bipolar Schottky TTL while maintaining CMOS low power dissipation. This 8-bit D-type flip-flop is controlled by a clock input and an output enable input. When the output enable input is high, the eight outputs are in a high impedance state. The internal circuit is composed of three stages, including a buffer output which provides high noise immunity and stable output. The inputs tolerate voltages up to 7V, allowing the interface of 5V systems to 3V systems.

### 特長

- High Speed:  $f_{max} = 180\text{MHz}$  (Typ) at  $V_{CC} = 5\text{V}$
- Low Power Dissipation:  $I_{CC} = 4\mu\text{A}$  (Max) at  $T_A = 25\text{C}$
- High Noise Immunity:  $V_{NIH} = V_{NIL} = 28\% V_{CC}$
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Designed for 2V to 5.5V Operating Range
- Low Noise:  $V_{OLP} = 1.2\text{V}$  (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300mA
- ESD Performance:  $HBM > 2000\text{V}$ ; Machine Model  $> 200\text{V}$

For more features, see the data sheet

### 電気的仕様

製品	Compliance	Status	Type	Channels	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_O$ Max (mA)	Package Type
MC74VHC574DTG	Pb-free	Active	D-Type	8	2	5.5	10.6	8	TSSOP-20
	Halide free								
MC74VHC574DTR2G	Pb-free	Active	D-Type	8	2	5.5	10.6	8	TSSOP-20
	Halide free								
MC74VHC574DWG	Pb-free	Active	D-Type	8	2	5.5	10.6	8	SOIC-20W
	Halide free								
MC74VHC574DWR2G	Pb-free	Active	D-Type	8	2	5.5	10.6	8	SOIC-20W
	Halide free								

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