

## Product Overview

### MC14040B: 12-Bit Binary Counter

For complete documentation, see the data sheet.

The MC14040B 12-stage binary counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. This part is designed with an input wave shaping circuit and 12 stages of ripple-carry binary counter. The device advances the count on the negative-going edge of the clock pulse. Applications include time delay circuits, counter controls, and frequency-driving circuits.

### Features

- Fully Static Operation
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Capable of Driving Two Low-power TTL Loads or One Low-power Schottky TTL Load Over the Rated Temperature Range
- Common Reset Line
- Pin-for-Pin Replacement for CD4040B
- Pb-Free Packages are Available

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	t <sub>pd</sub> Max (ns)	P <sub>D</sub> Max (W)	I <sub>O</sub> Max (mA)	Package Type
MC14040BDG	0.232	Pb-free Halide free non AEC-Q and PPAP	Active	Counter	3	18	1440	0.5	2.25	SOIC-16
MC14040BDR2G	0.168	Pb-free Halide free non AEC-Q and PPAP	Active	Counter	3	18	1440	0.5	2.25	SOIC-16
MC14040BDTR2G	0.28	Pb-free Halide free non AEC-Q and PPAP	Active	Counter	3	18	1440	0.5	2.25	TSSOP-16
NLV14040BDR2G	0.3235	AEC Qualified PPAP Capable Pb-free Halide free	Active	Counter	3	18	1440	0.5	2.25	SOIC-16
NLV14040BDTR2G	0.308	AEC Qualified PPAP Capable Pb-free Halide free	Active	Counter	3	18	1440	0.5	2.25	TSSOP-16

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