

Product Overview

MC1455: Timer Circuit

For complete documentation, see the data sheet.

The MC1455 monolithic timer circuit is a highly stable controller capable of producing accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode, time is precisely controlled by one external resistor and capacitor. For a stable operation as an oscillator, the free-running frequency and the duty cycle are both accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output structure can source or sink up to 200 mA or drive TTL circuits.

Features

- Direct Replacement for NE555 Timers
- Timing from Microseconds through Hours
- Operates in Both Astable and Monostable Modes
- Adjustable Duty Cycle
- High Current Output Can Source or Sink 200 mA
- Output Can Drive TTL
- Temperature Stability of 0.005% per °C
- Normally ON or Normally OFF Output
- Pb-Free Packages are Available

Part Electrical Specifications

| Product | Compliance | Status | Type | V _{CC} Min (V) | V _{CC} Max (V) | t _{pd} Max (ns) | P _D Max (W) | I _O Max (mA) | Package Type |
|------------|-------------|--------|-------|-------------------------|-------------------------|--------------------------|------------------------|-------------------------|--------------|
| MC1455DG | Pb-free | Active | Timer | 4.5 | 16 | 100 | 0.625 | 200 | SOIC-8 |
| | Halide free | | | | | | | | |
| MC1455DR2G | Pb-free | Active | Timer | 4.5 | 16 | 100 | 0.625 | 200 | SOIC-8 |
| | Halide free | | | | | | | | |

For more information please contact your local sales support at www.onsemi.com.

Created on: 2/23/2018