

## High-Frequency Waveform Generator

### General Description

The MAX038 is a high-frequency, precision function generator producing accurate, high-frequency triangle, sawtooth, sine, square, and pulse waveforms with a minimum of external components. The output frequency can be controlled over a frequency range of 0.1Hz to 20MHz by an internal 2.5V bandgap voltage reference and an external resistor and capacitor. The duty cycle can be varied over a wide range by applying a  $\pm 2.3V$  control signal, facilitating pulse-width modulation and the generation of sawtooth waveforms. Frequency modulation and frequency sweeping are achieved in the same way. The duty cycle and frequency controls are independent.

Sine, square, or triangle waveforms can be selected at the output by setting the appropriate code at two TTL-compatible select pins. The output signal for all waveforms is a 2V<sub>r-p</sub> signal that is symmetrical around ground. The low-impedance output can drive up to  $\pm 20mA$ .

The TTL-compatible SYNC output from the internal oscillator maintains a 50% duty cycle—regardless of the duty cycle of the other waveforms—to synchronize other devices in the system. The internal oscillator can be synchronized to an external TTL clock connected to PDI.

### Applications

Precision Function Generators  
Voltage-Controlled Oscillators  
Frequency Modulators  
Pulse-Width Modulators  
Phase-Locked Loops  
Frequency Synthesizer  
FSK Generator—Sine and Square Waves

### Features

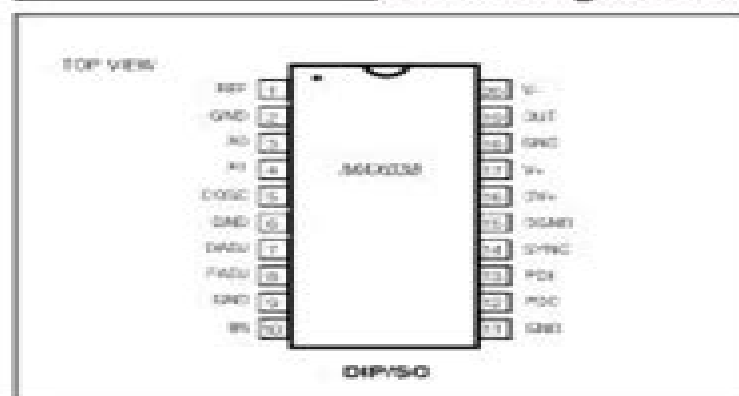
- 0.1Hz to 20MHz Operating Frequency Range
- Triangle, Sawtooth, Sine, Square, and Pulse Waveforms
- Independent Frequency and Duty-Cycle Adjustments
- 350 to 1 Frequency Sweep Range
- 15% to 85% Variable Duty Cycle
- Low-Impedance Output Buffer: 0.1 $\Omega$
- Low 200ppm/°C Temperature Drift

### Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX038COP	0°C to +70°C	20 Plastic DIP*
MAX038CWP	0°C to +70°C	20 SO
MAX038CDB*	0°C to +70°C	QJee

\* Contact factory prior to design.

### Pin Configuration



# Maxim Max038 User Guide

**Sebastian Brünink**



**Maxim Max038 User Guide:**

*Optical Diagnostics and Sensing in Biomedicine* ,2003

**Electronics World + Wireless World** ,1994

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*Desenvolvendo Um Gerador De Função* Vitor Amadeu Souza,2015-01-26 Este livro mostra como desenvolver um gerador de fun o utilizando o MAX038 que oferece os recursos necess rios para o mesmo

**Electronic Products Magazine** ,1995

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