Standard Timer Single -40°C 85°C 5-Pin SOT-23 T/R

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOT23-5
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active
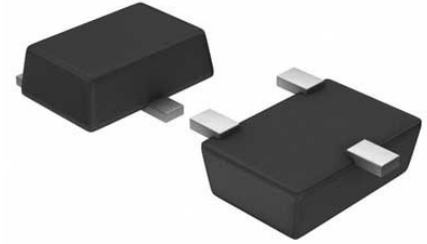
Images are for reference only

Inquiry

General Description

The MIC1555 IttyBitty® CMOS RC timer/oscillator and MIC1557 IttyBitty® CMOS RC oscillator are designed to provide rail-to-rail pulses for precise time delay or frequency generation.The devices are similar in function to the industry standard "555", without a frequency control (FC) pin or an opencollector discharge (D) pin. The threshold pin (TH) has precedence over the trigger (TR) input, ensuring that the BiCMOS output is off when TR is high.The MIC1555 may be used as an astable (oscillator) or monostable (one-shot) with separate threshold and trigger inputs. In the one-shot mode, the output pulse width is precisely controlled by an external resistor and a capacitor.Time delays may be accurately controlled from microseconds to hours. In the oscillator mode, the output is used to provide precise feedback, with a minimum of one resistor and one capacitor producing a 50% duty cycle square wave.The MIC1557 is designed for astable (oscillator) operation only, with a chip select/reset (CS) input for low power shutdown. One resistor and one capacitor provide a 50% duty cycle square wave. Other duty-cycle ratios may be produced using two diodes and two resistors. The MIC1555/7 is powered from a +2.7V to +18V supply voltage.The MIC1555/7 is available in the SOT-23-5 5-pin package, and is rated for -40°C to +85°C ambient temperature range.

Key Features

Timing from microseconds to hours

Threshold input precedence over trigger input

No output cross-conduction current spikes

Application

Clock & Timing, LED Lighting, Power Management

Recommended For You

MIC1555YM5-TR	**MIC1557BM5**	**MIC1555YMU-TR**
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
SOT23-5	SOT23-5	X2DFN

MIC1557BM5 TR

Microchip Technology, Inc

BGA

MIC1555BM5 TR

Microchip Technology, Inc

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SY87729LHY

Microchip Technology, Inc

QFP32

SY87701ALHG

Microchip Technology, Inc

TQFP32

SY89296UMG

Microchip Technology, Inc

VQFN

SY89297UMG

Microchip Technology, Inc

QFN24

SY89295UMG

Microchip Technology, Inc

QFN

SY89874UMG

Microchip Technology, Inc

QFN

SY87700ALHG

Microchip Technology, Inc

QFP32

SY87739LHY

Microchip Technology, Inc

TQFP32

MT9041BP1

Microchip Technology, Inc

PLCC

SY100EL34ZG

Microchip Technology, Inc

SOP16