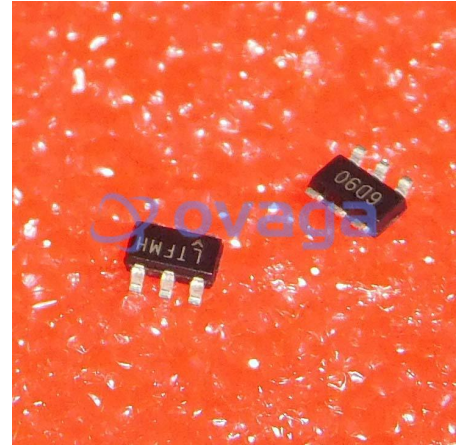


Monostable Multivibrator Single-Element -55C 125C Automotive 6-Pin TSOT-23 T/R

Manufacturers	Analog Devices, Inc
Package/Case	SOT-23
Product Type	Clock & Timer ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6993MPS6-3#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6993 is a monostable multivibrator (also known as a “one-shot” pulse generator) with a programmable pulse width of 1 μ s to 33.6 seconds. The LTC6993 is part of the TimerBlox[®] family of versatile silicon timing devices.

A single resistor, RSET, programs an internal master oscillator frequency, setting the LTC6993’s time base. The output pulse width is determined by this master oscillator and an internal clock divider, NDIV, programmable to eight settings from 1 to 221.

The output pulse is initiated by a transition on the trigger input (TRIG). Each part can be configured to generate positive or negative output pulses. The LTC6993 is available in four versions to provide different trigger signal polarity and retrigger capability.

The LTC6993 also offers the ability to dynamically adjust the width of the output pulse via a separate control voltage.

DeviceInput PolarityRetriggerLTC6993-1Rising-EdgeNoLTC6993-2Rising-EdgeYesLTC6993-3Falling-EdgeNoLTC6993-4Falling-EdgeYes

Features

Pulse Width Range: 1 μ s to 33.6 Seconds

Configured with 1 to 3 Resistors

Pulse Width Max Error:

Four LTC6993 Options Available:

Rising-Edge or Falling-Edge Trigger

Retriggerable or Non-Retriggerable

Configurable for Positive or Negative Output Pulse

Fast Recovery Time

2.25V to 5.5V Single Supply Operation

70 μ A Supply Current at 10 μ s Pulse Width

500 μ s Start-Up Time

CMOS Output Driver Sources/Sinks 20mA

Available in Low Profile (1mm) SOT-23 (ThinSOT™) and 2mm \times 3mm DFN

AEC-Q100 Qualified for Automotive Applications

Application

Watchdog Timer

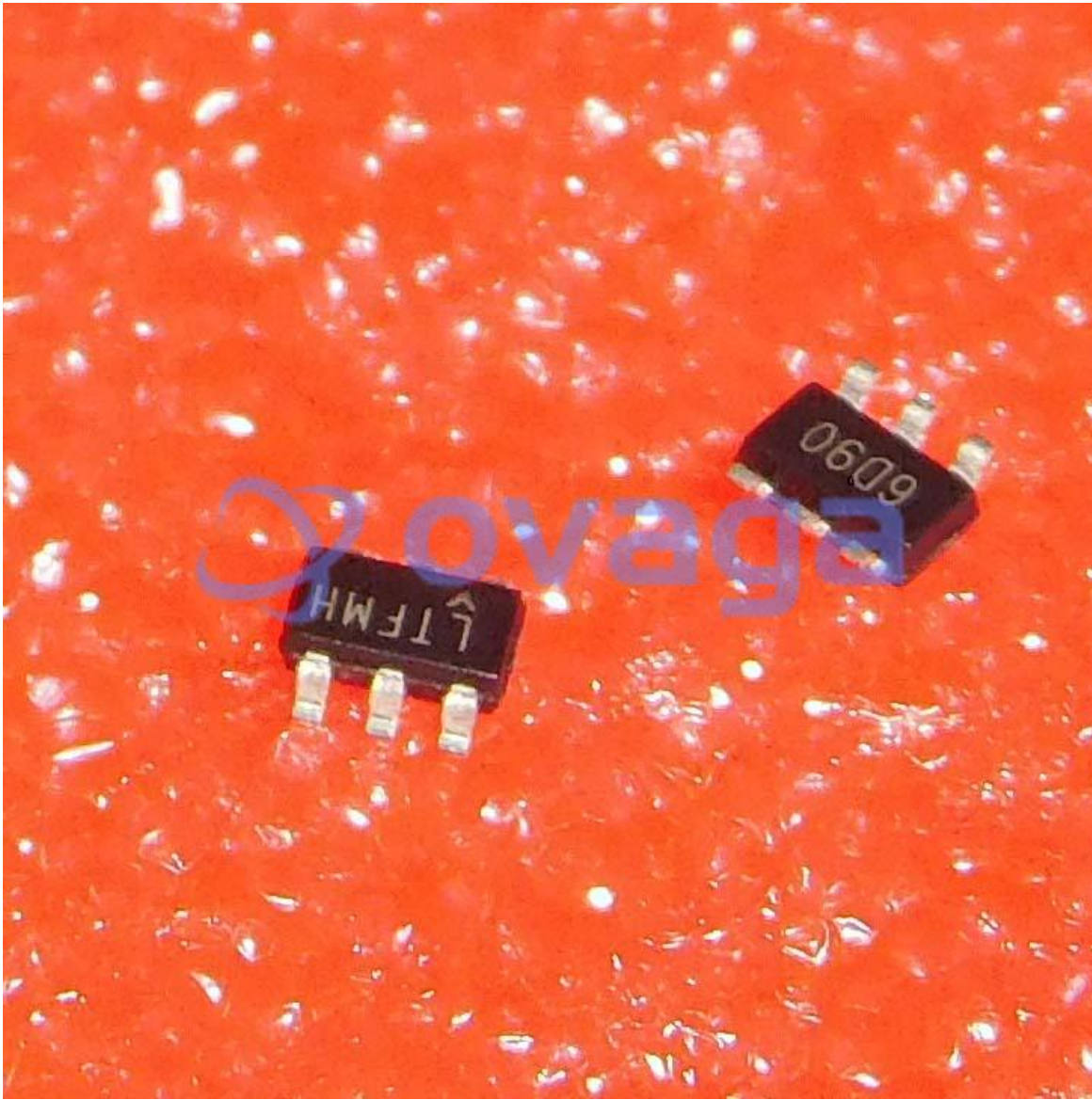
Frequency Discriminators

Missing Pulse Detection

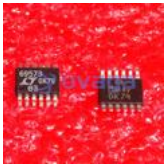
Envelope Detection

High Vibration, High Acceleration Environments

Portable and Battery-Powered Equipment



Related Products



[LTC6957HMS-3#PBF](#)

Analog Devices, Inc
MSOP-12



[LTC6994IS6-2#TRMPBF](#)

Analog Devices, Inc
SOT-6



[LTC1799CS5#TRMPBF](#)

Analog Devices, Inc
TSOT23



[LTC6902IMS#PBF](#)

Analog Devices, Inc
MSOP10



[LTC1799CS5#TRPBF](#)

Analog Devices, Inc
SMD5



[LTC6906CS6#TRMPBF](#)

Analog Devices, Inc
SOT23



[LTC6906CS6](#)

Analog Devices, Inc

SOT-23



[LTC1799IS5](#)

Analog Devices, Inc

SOT23-5