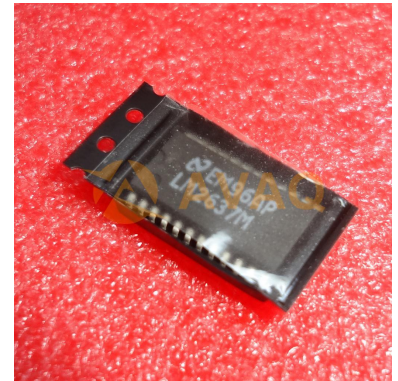


## LDO Cntrlr REG CTRLR Adjustable 1.3V to 3.5V 24-Pin SOIC W Rail



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** SOP24

**Product Type:** Power Management ICs

**Lifecycle:** Obsolete

### General Description

The LM26 is a precision, single digital-output, low-power thermostat comprised of an internal reference, DAC, temperature sensor and comparator. Utilizing factory programming, it can be manufactured with different trip points as well as different digital output functionality. The trip point (TOS) can be preset at the factory to any temperature in the range of 55°C to 110°C in 1°C increments. The LM26 has one digital output (OS/OS/US/US), one digital input (HYST) and one analog output (VTEMP). The digital output stage can be preset as either open-drain or push-pull. In addition, it can be factory programmed to be active HIGH or LOW. The digital output can be factory programmed to indicate an over temperature shutdown event (OS or OS) or an under temperature shutdown event (US or US). When preset as an overtemperature shutdown (OS) it will go LOW to indicate that the die temperature is over the internally preset TOS and go HIGH when the temperature goes below (TOS-THYST). Similarly, when preprogrammed as an undertemperature shutdown (US) it will go HIGH to indicate that the temperature is below TUS and go LOW when the temperature is above (TUS+THYST). The typical hysteresis, THYST, can be set to 2°C or 10°C and is controlled by the state of the HYST pin. A VTEMP analog output provides a voltage that is proportional to temperature and has a 10.82 mV/°C output slope.

Available parts are detailed in the Device Comparison Table. For other part options, contact a Texas Instruments Distributor or Sales Representative for information on minimum order qualification. The LM26 is currently available in a 5-lead SOT-23 package.

## Key Features

Internal Comparator With Pin Programmable 2°C

or 10°C Hysteresis

No External Components Required

Open-Drain or Push-Pull Digital Output; Supports

CMOS Logic Levels

Internal Temperature Sensor With VTEMP Output

Pin

VTEMP Output Allows After-Assembly System

Testing

Internal Voltage Reference and DAC for Trip-Point

Setting

Currently Available in 5-pin SOT-23 Plastic

Package

Excellent Power Supply Noise Rejection

UL Recognized Component

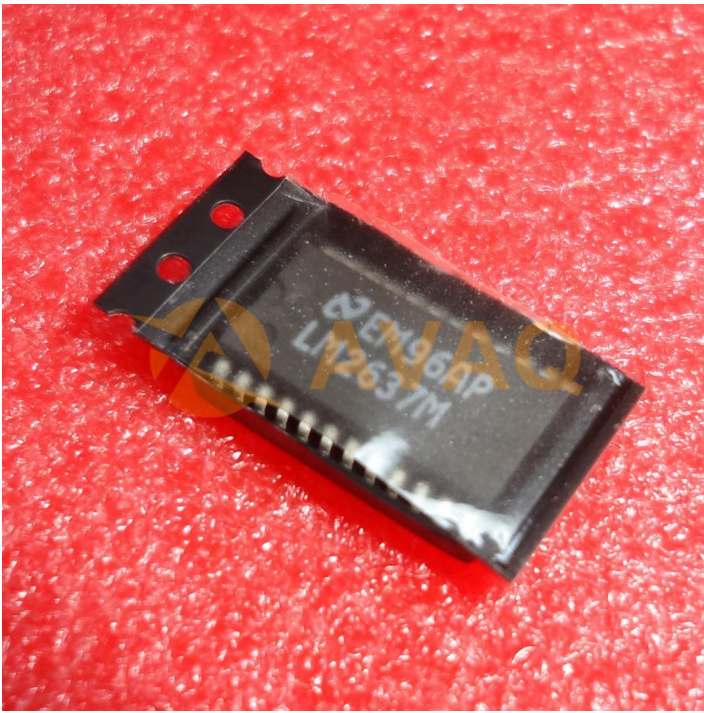
Key Specifications

Power Supply Voltage 2.7 V to 5.5 V

Power Supply Current

40  $\mu$ A (Maximum) 16  $\mu$ A (Typical)

Hysteresis Temperature 2°C or 10°C (Typical)



## Recommended For You

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### LM5116MH

Texas Instruments, Inc  
TSSOP20

### LM234Z-3

Texas Instruments, Inc  
TO-92

### LM27761DSGR

Texas Instruments, Inc  
WSO8

### LM74700QDBVRQ1

Texas Instruments, Inc  
SOT23-6

### LM2991S

Texas Instruments, Inc  
TO-263

### LM74800QDRRRQ1

Texas Instruments, Inc  
WSO-12

### LMR14030SDDAR

Texas Instruments, Inc  
SOP8

### LM2940CT-12

Texas Instruments, Inc  
TO-220

### LM536035QPWPTQ1

Texas Instruments, Inc  
HTSSOP-16

### LM5575MH

Texas Instruments, Inc  
TSSOP16

### LM536013QDSXTQ1

Texas Instruments, Inc  
WSO-10

### LM5160QPWPRQ1

Texas Instruments, Inc  
HTSSOP14

### LM5576MH

Texas Instruments, Inc  
TSSOP20

### LMQ61460AFSQRJRRQ1

Texas Instruments, Inc  
VQFN-14

### LM5071MIX-80

Texas Instruments, Inc  
TSSOP16