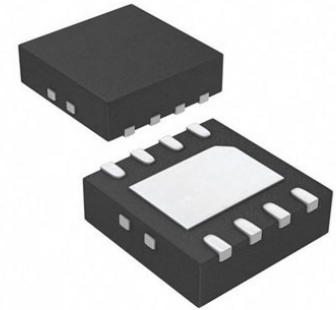


## LDO Regulator Pos 3.3V 0.1A Automotive 8-Pin WSON EP T/R



Images are for reference only

[Inquiry](#)

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

**Package/Case:** SON-8

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The LP2951-xx-Q1 devices are bipolar, low-dropout voltage regulators that can accommodate a wide input supply-voltage range of up to 35 V. The 8-pin LP2951-xx-Q1 is able to output either a fixed or adjustable output from the same device. By tying the OUTPUT and SENSE pins together, and the FEEDBACK and V<sub>TAP</sub> pins together, the LP2951-xx-Q1 outputs a fixed 5 V and 3.3 V (depending on the version). Alternatively, by leaving the SENSE and V<sub>TAP</sub> pins open and connecting FEEDBACK to an external resistor divider, the output can be set to any value between 1.235 V to 30 V.

The 8-pin LP2951-xx-Q1 also offers additional functionality that makes it particularly suitable for battery-powered applications. For example, a logic-compatible shutdown feature allows the regulator to be put in standby mode for power savings. In addition, there is a built-in supervisor reset function in which the ERROR output goes low when V<sub>OUT</sub> drops by 6% of its nominal value for whatever reasons – due to a drop in V<sub>IN</sub>, current limiting, or thermal shutdown.

The LP295x-xx-Q1 devices are designed to minimize all error contributions to the output voltage. With a tight output tolerance (0.5% at 25°C), a very low output voltage temperature coefficient (20 ppm typical), extremely good line and load regulation (0.3% and 0.4% typical), and remote sensing capability, the parts can be used as either low-power voltage references or 100-mA regulators.

## Key Features

Qualified for Automotive Applications

Wide Input Range: Up to 35 V

Rated Output Current of 100 mA

Low Dropout: 380 mV (Typ) at 100 mA

Low Quiescent Current: 75  $\mu$ A (Typ)

Tight Line Regulation: 0.03% (Typ)

Tight Load Regulation: 0.04% (Typ)

High  $V_O$  Accuracy

1.4% at 25°C

2% Over Temperature

Can Be Used as a Regulator or Reference

Stable With Low ESR (>12 m $\Omega$ ) Capacitors

Current- and Thermal-Limiting Features

8-Pin Package

Fixed Voltages: 5 V/ADJ and 3.3 V/ADJ

Low-Voltage Error Signal on Falling Output

Shutdown Capability

Remote Sense Capability for Optimal

Output Regulation and Accuracy

## Recommended For You

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### LP2997MR

Texas Instruments, Inc

SOP-8

### LP2951-50QDRGRQ1

Texas Instruments, Inc

SON-8

### TL431HLP

Texas Instruments, Inc

TO-92

### LP3966ES-ADJ/NOPB

Texas Instruments, Inc

TO263

### TPL7407LPWR

Texas Instruments, Inc

TSSOP16

### LP2997MR/NOPB

Texas Instruments, Inc

SOP8

### TL431CLP

Texas Instruments, Inc

TO-92

### LP2996MR/NOPB

Texas Instruments, Inc

SOP-8

### LP2951-50QDRQ1

Texas Instruments, Inc

SOP8

**LP5912Q1.8DRVRQ1**

Texas Instruments, Inc  
WSN-6

**LP5912Q3.3DRVRQ1**

Texas Instruments, Inc  
WSN-6

**LP2996MX**

Texas Instruments, Inc  
SOP-8

**LP2996MX/NOPB**

Texas Instruments, Inc  
SOP8

**LP2989AIM-3.3/NOPB**

Texas Instruments, Inc  
SOP8

**LP2998MAX/NOPB**

Texas Instruments, Inc  
SOP8