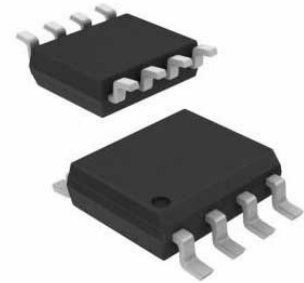


## Processor Supervisor 2.93V 1 Active Low 8-Pin SOIC T/R



Images are for reference only

[Inquiry](#)

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

**Package/Case:** SOP8

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The LM2904-Q1, LM2904B-Q1, and LM2904BA-Q1 are industry-standard operational amplifiers that have been qualified for automotive use in accordance to the AEC-Q100 specifications. The LM2904B-Q1 and LM2904BA-Q1 are the next-generation versions of the LM2904-Q1, which include two high-voltage (36 V) operational amplifiers (op amps). The LM2904B-Q1 and LM2904BA-Q1 provide outstanding value for cost-sensitive applications, with features including low offset (3 mV and 2 mV maximum, respectively), common-mode input range to ground, and high differential input voltage capability.

The LM2904B-Q1 and LM2904BA-Q1 simplify circuit design with enhanced features such as unity-gain stability, lower offset voltage of 0.3 mV (typical), and lower quiescent current of 300  $\mu$ A (typical). High ESD (2 kV, HBM) and integrated EMI and RF filters enable the LM2904B-Q1 and LM2904BA-Q1 devices to be used in the most rugged, environmentally challenging applications for the automotive marketplace.

## Key Features

Power-On Reset Generator

Automatic Reset Generation After Voltage Drop

Precision Voltage Sensor

Temperature-Compensated Voltage Reference

Programmable Delay Time by External Capacitor

Supply Voltage Range . . . 2 V to 6 V

Defined RESET Output from VDD  $\geq$  1 V

Power-Down Control Support for Static RAM With Battery Backup

Maximum Supply Current of 16  $\mu$ A

Power Saving Totem-Pole Outputs

Temperature Range . . . Up to  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$

### Description

The TLC77xx family of micropower supply voltage supervisors provide reset control, primarily in microcomputer and microprocessor systems.

During power-on, CSH1) of the microprocessor, the memory circuit is automatically disabled during a power loss. (In this application the TLC77xx power has to be supplied by the battery.)

The TLC77xxI is characterized for operation over a temperature range of  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ ; the TLC77xxQ is characterized for operation over a temperature range of  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ ; and the TLC77xxM is characterized for operation over the full Military temperature range of  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ .

The 3 $\times$ 3 mm DRB package is also available as a non-magnetic package for medical imaging application.

## Recommended For You

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### TL2843P

Texas Instruments, Inc

DIP8

### TL431CP

Texas Instruments, Inc

DIP8

### TL7705ACDR

Texas Instruments, Inc

SOP8

### TL3843P

Texas Instruments, Inc

DIP8

### TL497ACN

Texas Instruments, Inc

DIP14

### TL3845P

Texas Instruments, Inc

DIP8

### TL494CD

Texas Instruments, Inc

SOP-16

### TL431IDBVR

Texas Instruments, Inc

SOT23-5

### TL494CN

Texas Instruments, Inc

DIP

### TL431CDBVR

Texas Instruments, Inc

SOT23-5

### TL7705ACP

Texas Instruments, Inc

DIP8

### TL3842P

Texas Instruments, Inc

DIP8

**TLV73325PDBVT**

Texas Instruments, Inc

SOT23-5

**TLV73333PDBVR**

Texas Instruments, Inc

SOT23-5

**TL431BIDBZT**

Texas Instruments, Inc

SOT23-3