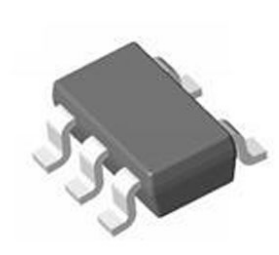


## Processor Supervisor 2.93V 1 Active Low/Push-Pull 5-Pin SC-70 T/R



Images are for reference only

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

**Package/Case:** SC70-5

**Product Type:** Power Management ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

The TPS380x family of supervisory circuits monitor supply voltages to provide circuit initialization and timing supervision, primarily for DSPs and other processor-based systems.

These devices assert a push-pull  $\overline{\text{RESET}}$  signal when the SENSE (adjustable version) or  $V_{\text{DD}}$  (fixed version) drops below a preset threshold. The  $\overline{\text{RESET}}$  output remains asserted for the factory programmed delay time after the SENSE or  $V_{\text{DD}}$  return above its threshold.

The TPS380x devices, except the TPS3801-01, incorporate a manual reset input ( $\overline{\text{MR}}$ ). A low level at  $\overline{\text{MR}}$  causes  $\overline{\text{RESET}}$  to become active.

The TPS380x uses a precision reference to achieve an overall threshold accuracy of 2%—2.5%. These devices are available in a 5-pin SC-70 package, which is only about half the size of a 5-pin SOT-23 package.

The TPS380x devices are fully specified over a temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

## Key Features

Small, 5-Pin SC-70 (SOT-323) Package

Supply Current of 9  $\mu$ A

Power-On Reset Generator With Fixed Delay Time  
TPS3800 = 100 ms

TPS3801 = 200 ms

TPS3802 = 400 ms

Precision Supply Voltage Monitor 1.8 V, 2.5 V,  
2.7 V, 3 V, 3.3 V, 5 V, and Adjustable

Manual Reset Input (Except TPS3801-01)

Temperature Range:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### APPLICATIONS

Applications Using DSPs, Microcontrollers, or Microprocessors

Wireless Communication Systems

Portable/Battery-Powered Equipment

Programmable Controls

Intelligent Instruments

Industrial Equipment

Notebook/Desktop Computers

Automotive Systems

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## Recommended For You

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### TPD3S014DBVR

Texas Instruments, Inc

SOT23-6

### TPS2065CDBVR

Texas Instruments, Inc

SOT23-5

### TPS2557DRBT

Texas Instruments, Inc

SON8

### TPS2042BDR

Texas Instruments, Inc

SOP8

### TPS2051BDR

Texas Instruments, Inc

SOP8

### TPL7407LPWR

Texas Instruments, Inc

TSSOP16

### TPS23753APWR

Texas Instruments, Inc

TSSOP14

### TPS2116DRLR

Texas Instruments, Inc

SOT5X3-8

### TPS259460ARPWR

Texas Instruments, Inc

VQFN-10

**TPS23751PWPR**

Texas Instruments, Inc  
HTSSOP16

**TPS65150QPWPRQ1**

Texas Instruments, Inc  
HTSSOP-24

**TPS2410PWR**

Texas Instruments, Inc  
TSSOP-14

**TPS22914BYFPR**

Texas Instruments, Inc  
DSBGA4

**TPS2115ADRBR**

Texas Instruments, Inc  
VSON8

**TPS2113ADRBR**

Texas Instruments, Inc  
SON8