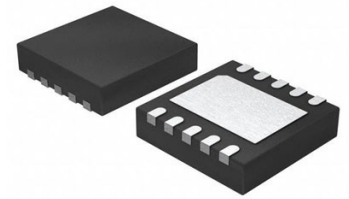


Processor Supervisor 0.4V 1 Active Low/Open Drain Automotive 6-Pin WSON T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: WSON-6

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TPS3710-Q1 wide-supply voltage detector operates over a 1.8-V to 18-V range. The device has a high-accuracy comparator with an internal 400-mV reference and an open-drain output rated to 18 V for precision voltage detection. The monitored voltage can be set with the use of external resistors.

The OUT pin is driven low when the voltage at the SENSE pin drops below (V_{IT-}), and goes high when the voltage returns above the respective threshold (V_{IT+}). The comparator in the TPS3710-Q1 includes built-in hysteresis for filtering to reject brief glitches, thereby ensuring stable output operation without false triggering.

The TPS3710-Q1 is available in a 1.5-mm × 1.5-mm 6-pin WSON package, and is specified over the junction temperature range of -40°C to +125°C.

Key Features

Qualified for Automotive Applications

AEC-Q100 Qualified With the Following Results:

Device Temperature Grade 1: -40°C to 125°C Ambient Operating Temperature Range

Device HBM ESD Classification Level 2

Device CDM ESD Classification Level C6

Wide Supply Voltage Range: 1.8 V to 18 V

Adjustable Threshold: Down to 400 mV

High Threshold Accuracy:
1.0% Over Temperature

0.25% (Typical)

Low Quiescent Current: 5.5 μ A (Typical)

Open-Drain Output

Internal Hysteresis: 5.5 mV (Typical)

Temperature Range: -40°C to +125°C

Packages:

1.5-mm \times 1.5-mm WSON-6

Recommended For You

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