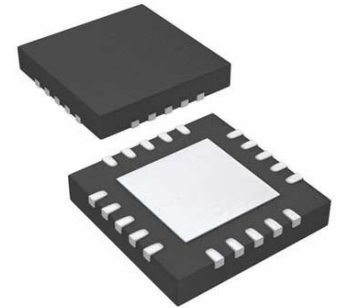


Processor Supervisor 0.4V 4 Active Low Automotive 20-Pin VQFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: QFN20

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TPS3860x0 family of supply voltage supervisors (SVSs) can monitor four power rails that are greater than 0.4 V and one power rail less than 0.4 V (including negative voltage) with a 0.25% (typical) threshold accuracy. Each of the four supervisory circuits (SVS-n) asserts a RESETn or RESETEm output signal when the SENSEm input voltage drops below the programmed threshold. With external resistors, the threshold of each SVS-n can be programmed (where n = 1, 2, 3, 4 and m = 1, 2, 3, 4L, 4H).

Each SVS-n has a programmable delay before releasing RESETn or RESETEm. The delay time can be set independently for each SVS from 1.4 ms to 10 s through the CTn pin connection. Only SVS-1 has an active-low manual reset (MR) input; a logic-low input to MR asserts RESET1 or RESETE1.

SVS-4 monitors the threshold window using two comparators. The extra comparator can be configured as a fifth SVS to monitor negative voltage with voltage reference output VREF.

The TPS3860x0 has a very low quiescent current of 11 μ A (typical) and is available in a small, 4-mm x 4-mm, VQFN-20 package.

Key Features

Four Independent Voltage Supervisors

Channel 1:

Manual Reset (MR) Input

Channels 2, 3:

Channel 4:

Window Comparator

Adjustable Delay Time: 1.4 ms to 10 s

Threshold Accuracy: 0.25% Typical

Very Low Quiescent Current: 11 μ A Typical

Watchdog Timer With Dedicated Output

Well-Controlled Output During Power Up

TPS386000: Open-Drain RESETn and WDO

TPS386040: Push-Pull RESETn and WDO

Package: 4-mm \times 4-mm, 20-Pin VQFN

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