

Processor Supervisor 1 Active Low/Open Drain Automotive 5-Pin SC-70 T/R

Manufacturer:	Texas Instruments, Inc	<input type="text" value="TPS3803-01QDCKRQ1 Image"/>
Package/Case:	SC70-5	Images are for reference only
Product Type:	Power Management ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The TPS3803-Q1 and TPS3805-Q1 families of supervisory circuits provide circuit initialization and timing supervision, primarily for DSPs and processor-based systems.

The TPS3803G15-Q1 device has a fixed-sense threshold voltage V_{IT} set by an internal voltage divider, whereas the TPS3803-01-Q1 has an adjustable SENSE input that can be configured by two external resistors. In addition to the fixed sense threshold monitored at V_{DD} , the TPS3805-Q1 devices provide a second adjustable SENSE input. $\overline{\text{RESET}}$ is asserted in case either of the two voltages drops below V_{IT} .

During power on, $\overline{\text{RESET}}$ is asserted when supply voltage V_{DD} becomes higher than 0.8 V. Thereafter, the supervisory circuit monitors V_{DD} (and/or SENSE) and keeps $\overline{\text{RESET}}$ active as long as V_{DD} or SENSE remains below the threshold voltage V_{IT} . As soon as V_{DD} (SENSE) rises above the threshold voltage V_{IT} , $\overline{\text{RESET}}$ is deasserted again. The product spectrum is designed for 1.5-V, 3.3-V, and adjustable supply voltages.

The devices are available in a 5-pin SC-70 package. The TPS3803-Q1 and TPS3805-Q1 devices are characterized for operation over a temperature range of -40°C to 125°C .

Key Features

Qualified for Automotive Applications

Single Voltage Detector (TPS3803): Adjustable and 1.5 V

Dual Voltage Detector (TPS3805): Adjustable and 3.3 V

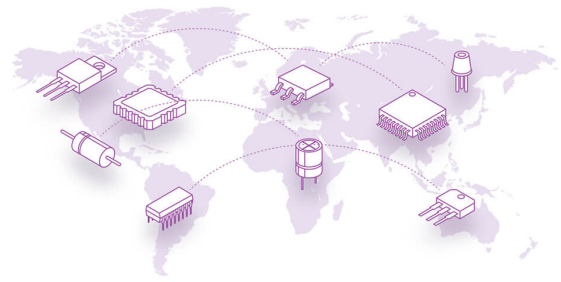
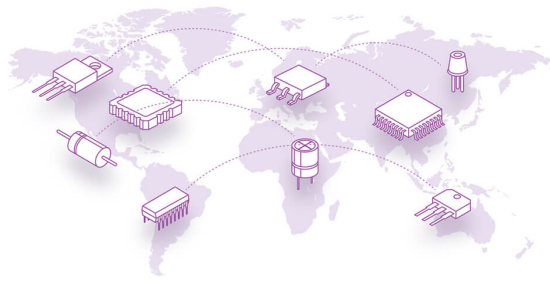
High $\pm 1.5\%$ Threshold Voltage Accuracy

Supply Current: 3 μA Typical at $V_{DD} = 3.3\text{ V}$

Push/Pull Reset Output (TPS3805),
Open-Drain Reset Output (TPS3803)

Temperature Range: -40°C to 125°C

5-Pin SC-70 Package



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