

Processor Supervisor 2.941V 1 Active Low/Open Drain 6-Pin SOT-23 T/R

Manufacturer:	Texas Instruments, Inc	<input type="text" value="TPS3106K33DBVR Image"/>
Package/Case:	SOT23-6	Images are for reference only
Product Type:	Power Management ICs	<input type="button" value="Inquiry"/>
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The TPS310x and TPS311x families of supervisory circuits provide circuit initialization and timing supervision, primarily for DSP and processor-based systems.

During power-on, RESET is asserted low when the supply voltage (VDD) becomes higher than 0.4 V. Thereafter, the supervisory circuit monitors VDD and keeps the RESET output low as long as VDD remains below the threshold voltage (VIT⁻). To ensure proper system reset, after VDD surpasses the threshold voltage, an internal timer delays the transition of the RESET signal from low to high for the specified time. When VDD drops below VIT⁻, the output transitions low again.

All the devices of this family have a fixed-sense threshold voltage (VIT⁻) set by an internal voltage divider.

The TPS3103 and TPS3106 devices have an active-low, open-drain RESET output and either an integrated power-fail input (PFI) or SENSE input with corresponding outputs for monitoring other voltages. The TPS3110 has an active-low push/pull RESET and a watchdog timer to monitor the operation of microprocessors. All three devices have a manual reset pin that can be used to force the outputs low regardless of the sensed voltages.

The product spectrum is designed for supply voltages of 0.9 V up to 3.6 V. The circuits are available in 6-pin SOT-23 packages. The TPS31xx family is characterized for operation over a temperature range of -40°C to 125°C.

Key Features

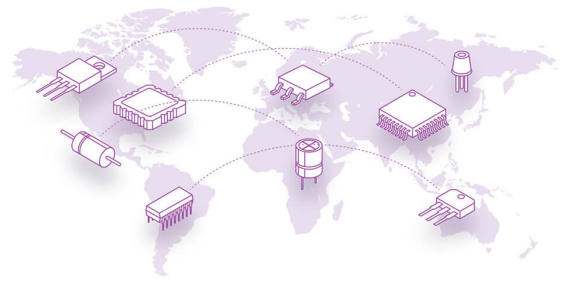
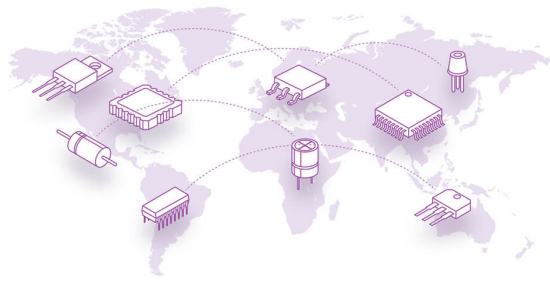
Precision Supply Voltage Supervision Range: 0.9 V, 1.2 V, 1.5 V, 1.6 V, 2 V, and 3.3 V

High Trip-Point Accuracy: 0.75%

Supply Current of 1.2 μ A (Typical)

RESET and a watchdog timer to monitor the operation of microprocessors. All three devices have a manual reset pin that can be used to force the outputs low regardless of the sensed voltages.

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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