

Processor Supervisor 2.93V 1 Active Low/Push-Pull Automotive 8-Pin VSSOP T/R

Manufacturer:	Texas Instruments, Inc	<input type="text" value="TPS3619-33DGKR Image"/>
Package/Case:	MSOP8	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 TPS3619 and TPS3620 families of supervisory circuits monitor and control processor activity by providing backup-battery switchover for data retention of CMOS RAM.

During power on, RESET is asserted when the supply voltage (V_{DD} or V_{BAT}) becomes higher than 1.1 V. Thereafter, the supply voltage supervisor monitors V_{DD} and keeps RESET output active as long as V_{DD} remains below the threshold voltage (V_{IT}). An internal timer delays the return of the output to the inactive state (high) to ensure proper system reset. The delay time starts after V_{DD} has risen above V_{IT} . When the supply voltage drops below V_{IT} , the output becomes active (low) again.

The product spectrum is designed for supply voltages of 3.3 V and 5 V. The TPS3619 and TPS3620 are available in an 8-pin MSOP package and are characterized for operation over a temperature range of -40°C to $+85^{\circ}\text{C}$.

Key Features

Supply Current of 40 μ A (Max)

Battery-Supply Current of 100 nA (Max)

Precision Supply Voltage Monitor 3.3 V, 5 V, Other Options on Request

Backup-Battery Voltage Can Exceed VDD

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

Voltage Monitor For Power-Fail or Low-Battery Monitoring

Battery Freshness Seal (TPS3619)

Pin-For-Pin Compatible With MAX819, MAX703, and MAX704

8-Pin MSOP Package

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

APPLICATIONS

Fax Machines

Set-Top Boxes

Advanced Voice Mail Systems

Portable Battery-Powered Equipment

Computer Equipment

Advanced Modems

Automotive Systems

Portable Long-Time Monitoring Equipment

Point-of-Sale Equipment

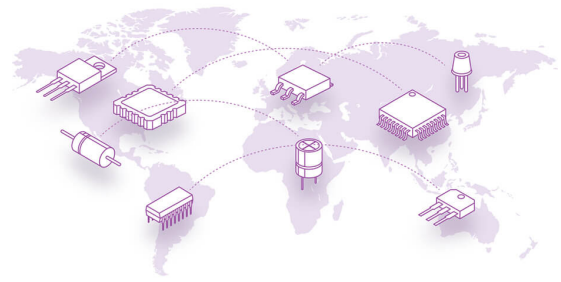
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Description

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During power on, RESET output active as long as VDD remains below the threshold voltage (VIT). An internal timer delays the return of the output to the inactive state (high) to ensure proper system reset. The delay time starts after VDD has risen above VIT. When the supply voltage drops below VIT, the output becomes active (low) again.

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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