

Product Overview

CAT8710: Quad Voltage Supervisor

For complete documentation, see the data sheet



The CAT8710 is a space-saving, precision quad voltage supervisor, designed to monitor up to four supply voltages with a single device. When any supply voltage drops below its preset threshold, the CAT8710 will output a single reset to the threshold. One CAT8710 IC eliminates the need for multiple reset circuits, which minimizes system components and improves reliability.

The CAT8710 provides 2 factory preset thresholds for monitoring 3.3 V, 3.0 V, 2.5 V, and 1.8 V supplies within $\pm 5\%$ and 2 user-selectable thresholds, adjustable down to 0.62 V with 2% accuracy. On power up, the reset remains low for 120 ms typical, after all voltages have risen above their selected thresholds. The output remains valid as long as VDD remains above 1 V.

The CAT8710 is available in a 6-pin TSOT-23 package and operates over the industrial temperature range of -40°C to $+85^{\circ}\text{C}$.

Features

- 2 factory preset reset threshold options for 3.3 V, 3.0 V, 2.5 V and 1.8 V supplies
 - Low supply current: 3.0 A (typ)
 - Small, TSOT-23 6-pin package
 - Monitors 4 power supply voltages simultaneously
 - 2 user-programmed threshold monitors, adjustable down to 0.62 V with 2% accuracy
 - Drop-in replacement to MAX6710
 - Ultra-low power vs. Maxim
 - Reset timeout period: 120 ms (typ)
 - /RESET valid to $V_{CC} = 1.0\text{ V}$
 - Immune to short supply transients
- For more features, see the data sheet

Benefits

- Common power supply voltage selections pre-set at the factory save external components and lower cost.
- Lower power consumption, typically consuming 10% of the power required for similar competing products
- Consolidates four monitors into the space of one - uses only 25% of the board space

Applications

- Monitoring of multiple power supply voltages

For more information please contact your local sales support at www.onsemi.com

Created on: 4/30/2017