

Product Overview

CAT810: Voltage Supervisor, Push-Pull, Active High

For complete documentation, see the data sheet.

The CAT810 is a μP supervisory circuits that monitor power supplies in digital systems. The CAT810 is a direct replacement for the MAX810 in applications operating over the industrial temperature range. This device generates a reset signal, which is asserted while the power supply voltage is below a preset threshold level and for at least 140 ms after the power supply level has risen above that level. The underlying floating gate technology, $\text{AE}^2\&\text{trade}$; used by ON Semiconductor, makes it possible to offer any custom reset threshold value. Seven industry standard threshold levels are offered to support +5.0 V, +3.3 V, +3.0 V and +2.5 V systems. The CAT810 features a push-pull RESET output (active HIGH). Fast transients on the power supply are ignored and the output is guaranteed to be in the correct state at V_{CC} levels as low as 1.0 V. The CAT810 is available in both the compact 3-pin SOT-23 and SC70 packages.

Features

- Precision monitoring of +5.0V (-5%, -10%, -20%), +3.3V (-5%, -10%), +3.0V (-10%) and +2.5V (-5%) power supplies
- Offered in three output configurations: - CAT810: Push-Pull Active HIGH reset
- Direct replacements for the MAX810 in applications operating over the industrial temperature range
- Reset valid down to $V_{\text{CC}} = 1.0\text{ V}$
- 6 μA power supply current
- Power supply transient immunity
- Industrial temperature range: -40°C to $+85^{\circ}\text{C}$
- Available in RoHS-compliant SOT-23 and SC70 packages

Applications

- Computers
- Servers
- Laptops
- Cable modems
- Wireless communications

Part Electrical Specifications

Product	Compliance	Status	Voltages Monitored	V_{CC} Max (V)	V_{RTO} Typ (V)	I_{Q} Typ (μA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
CAT810JTBI-GT3	Pb-free	Active	1	5.5	4	6	High	Yes	No	No	SOT-23-3
	Halide free										
CAT810TTBI-GT3	Pb-free	Active	1	5.5	3.08	6	High	Yes	No	No	SOT-23-3
	Halide free										

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