

Product Overview

CAT824: Voltage Supervisor with Watchdog

For complete documentation, see the data sheet.

The CAT824 provides a basic reset and monitoring function for the electronic systems. This device monitors the system voltage and maintains a reset output until that voltage reaches the device's specified trip value and then maintains the reset output active condition until the device's internal timer, after a minimum timer of 140ms; to allow the systems power supply to stabilize.

The CAT824 also has a watchdog input which can be used to monitor a system signal and cause a reset to be issued if the signal fails to change state prior to a timeout condition.

The CAT824 also provides a manual reset input which can be used to initiate reset if pulled low. This input can be directly attached to a push-button or a processor signal.

Features

- Automatically Restarts Microprocessor after Power Failure
- Monitors Pushbutton for External Override
- Accurate Under Voltage System Monitoring
- Brownout Detection System Reset for use with 3.0, 3.3, and 5.0 Volt Systems
- Pin and Function Compatible with the MAX823/24/25 Products
- Operating Range from -40°C to +85°C
- Available in TSOT-23 5-lead and SC-70 Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Applications

- Microprocessor and Microcontroller Based Systems
- Intelligent Instruments
- Control Systems
- Critical μ P Monitors
- Portable Equipment

Part Electrical Specifications

Product	Compliance	Status	Voltages Monitored	V _{CC} Max (V)	V _(TO) Typ (V)	I _Q Typ (μA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
CAT824MTDI-GT3	Pb-free	Active	1	5.5	4.38	6	Low	Yes	No	Yes	TSOT-23-5
	Halide free						High				

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