

Product Overview

CAT823: Voltage Supervisor with Manual Reset and Watchdog

For complete documentation, see the data sheet.

The CAT823, CAT824, and CAT825 provide basic reset and monitoring functions for the electronic systems. Each 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 140 ms; to allow the systems power supply to stabilize. The CAT823 and CAT824 also have 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 CAT823 and CAT825 also provide 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
CAT823RTDI-GT3	Pb-free	Active	1	5.5	2.63	6	Low	Yes	Yes	Yes	TSOT-23-5
	Halide free										
CAT823STDI-GT3	Pb-free	Active	1	5.5	2.93	6	Low	Yes	Yes	Yes	TSOT-23-5
	Halide free										
CAT823TTDI-GT3	Pb-free	Active	1	5.5	3.08	6	Low	Yes	Yes	Yes	TSOT-23-5
	Halide free										
CAT823YTDI-GT3	Pb-free	Active	1	5.5	2.19	6	Low	Yes	Yes	Yes	TSOT-23-5
	Halide free										
CAT823ZTDI-GT3	Pb-free	Active	1	5.5	2.32	6	Low	Yes	Yes	Yes	TSOT-23-5
	Halide free										

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