Product Overview

CAT803: Voltage Supervisor, Open Drain, Active Low

For complete documentation, see the data sheet.

The CAT803 is a uP supervisory circuits that monitor power supplies in digital systems. The CAT803 is a direct replacement for the MAX803 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, Analog EEPROM 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 CAT803 has an open-drain RESET output (active LOW). The CAT803 requires a pull-up resistor on the reset output.

Fast transients on the power supply are ignored and the output is guaranteed to be in the correct state at Vcc levels as low as 1.0 V.

The CAT803 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:
  - CAT803: Open-Drain Active LOW reset
- Direct replacements for the MAX803 in applications operating over the industrial temperature range
- Reset valid down to V_{CC} = 1.0 V
- 6 μA power supply current
- Power supply transient immunity
- Industrial temperature range: -40˚C to +85˚C
- Available in RoHS-compliant SOT-23 and SC70 packages
- These Devices are Pb Free and are RoHS Compliant

Applications

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

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
CAT803SSDI-GT3	Pb-free Halide free	Active	1	5.5	2.93	6	Low	Yes	No	No	SC-70-3 / SOT-323-3

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

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