

Product Overview

MAX708: MicroPower Voltage Supervisor

For complete documentation, see the data sheet.

The MAX707/708 are cost-effective system supervisor circuits designed to monitor V_{CC} in digital systems and provide a reset signal to the host processor when necessary. No external components are required. The reset output is driven active within 20 μ s of V_{CC} falling through the reset voltage threshold. Reset is maintained with 200 mS of delay time after V_{CC} rise above the reset threshold. The MAX707/708 have a low quiescent current of 12 μ A at V_{CC} = 3.3 V, an active-high RESET and active-low RESET with a push-pull output. The output is guaranteed valid down to V_{CC} = 1.0 V. The MAX707/708 have a Manual Reset MR input and a +1.25 V threshold detector for power-fail input PFI. These devices are available in a Micro8 and SOIC-8 package.

Features

- Precision Supply-Voltage Monitor MAX707: 4.63 V Reset Threshold Voltage MAX708: Standard Reset Threshold Voltages (Typical): 4.38 V, 3.08 V, 2.93 V, 2.63 V
- Reset Threshold Available from 1.6 V to 4.9 V with 100 mV Increments (Factory Option)
- 200 mS (Typ) Reset Timeout Delay
- 12 μ A (V_{CC} = 3.3 V) Quiescent Current
- Active_High and Active_Low Reset Output
- Guaranteed RESET_L and RESET Output Valid to V_{CC} = 1.0 V
- Voltage Monitor for Power-Fail or Low-Battery Warning
- 8 Pin SO or Micro8 Package
- Pb-Free Packages are Available

Applications

- Computers
- Embedded System
- Battery Powered Equipment
- Critical μ P Power Supply Monitor

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Voltages Monitored	V _{CC} Max (V)	V _(TO) Typ (V)	I _Q Typ (μ A)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
MAX708CUA-TG		Pb-free	Active	2	5.5	4.38	12	Low	No	Yes	No	Micro8™
		Halide free						High				
MAX708ESA-TG	0.3239	Pb-free	Active	2	5.5	4.38	12	High	No	Yes	No	SOIC-8
		Halide free						Low				
MAX708RCUA-TG		Pb-free	Active	2	5.5	2.63	12	Low	No	Yes	No	Micro8™
		Halide free						High				
MAX708RESA-TG		Pb-free	Active	2	5.5	2.63	12	High	No	Yes	No	SOIC-8
		Halide free						Low				
MAX708SCUA-TG	0.4	Pb-free	Active	2	5.5	2.93	12	High	No	Yes	No	Micro8™
		Halide free						Low				
MAX708SESA-TG	0.2732	Pb-free	Active	2	5.5	2.93	12	Low	No	Yes	No	SOIC-8
		Halide free						High				
MAX708TCUA-TG		Pb-free	Active	2	5.5	3.08	12	Low	No	Yes	No	Micro8™
		Halide free						High				
MAX708TESA-TG		Pb-free	Active	2	5.5	3.08	12	Low	No	Yes	No	SOIC-8
		Halide free						High				

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

Created on: 4/5/2020