

ADVANCE INFORMATION

FIRST PAGE OF DATA SHEET IN PREPARATION

MAXIM

High-Performance Supervisory Circuits

General Description

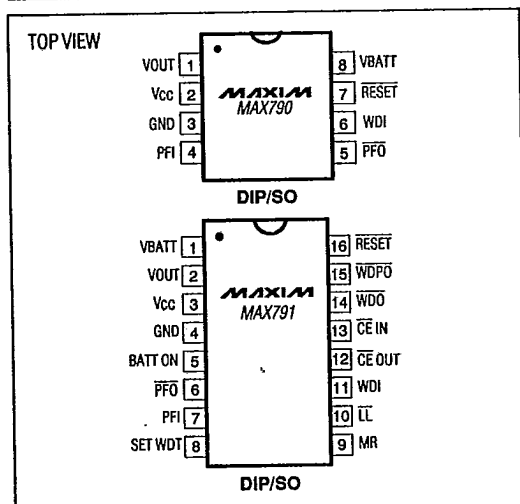
The MAX790/MAX791 supervisory circuits reduce the complexity and number of components required for power-supply monitoring and battery-control functions in microprocessor (μ P) systems. These include μ P reset, backup-battery switchover, watchdog timer, CMOS RAM write protection, and power-failure warning. The RESET output of the ICs is guaranteed to be in the correct state for VCC voltages down to 1V.

The MAX790/MAX791 offer several improvements over Maxim's MAX690 Series of supervisory circuits, including 70 μ A supply current, 10ns CE propagation delay, 250mA output current (VCC mode), and 25mA output current (VBATT mode). The MAX790 is pin compatible with the MAX690.

Applications

Computers
Controllers
Intelligent Systems
Automotive Systems
Critical μ P Power Monitoring

Pin Configurations



Features

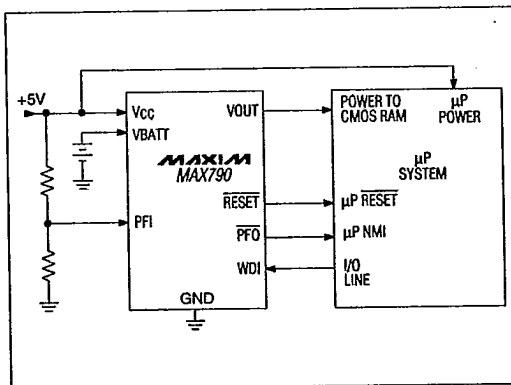
- ◆ Precision 4.72V Monitor
- ◆ 250ms RESET VCC Assertion Time
- ◆ 1.6sec or Adjustable Watchdog Timeout Period
- ◆ Min Component Count
- ◆ 1 μ A Standby Current
- ◆ Monitors Backup Battery
- ◆ Battery-Backup Power Switching
- ◆ On-board Gating of Chip-Enable Signals

Ordering Information

PART	TEMP. RANGE	PIN-PACKAGE
MAX790CPA	0°C to +70°C	8 Plastic DIP
MAX790C/D	0°C to +70°C	Dice*
MAX790EPA	-40°C to +85°C	8 Plastic DIP
MAX790MJA	-55°C to +125°C	8 CERDIP
MAX791CPE	0°C to +70°C	16 Plastic DIP
MAX791CWE	-0°C to +70°C	16 Wide SO
MAX791C/D	0°C to +70°C	Dice*
MAX791EPE	-40°C to +85°C	16 Plastic DIP
MAX791EWE	-40°C to +85°C	16 Wide SO
MAX791MJE	-55°C to +125°C	16 CERDIP

*Consult factory for dice specifications.

Typical Operating Circuit



MAXIM

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MAX790/MAX791

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