ADVANCE INFORMATION

FIRST PAGE OF DATA SHEET IN PREPARATION

////XI//I High-Performance

High-Performance Supervisory Circuits

Features

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 (μP) systems. These include μP reset, backup-battery switchover, watchdog timer, CMOS RAM write protection, and power-failure warning. The RESEToutput 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 70µA 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 uP Power Monitoring

♦ Precision 4.72V Monitor

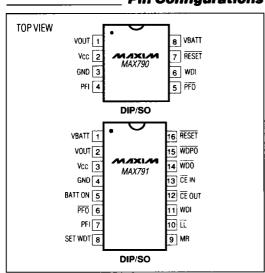
- ♦ 250ms RESET Vcc Assertion Time
- ♦ 1.6sec or Adjustable Watchdog Timeout Period
- **♦ Min Component Count**
- ◆ 1µA Standby Current
- ♦ Monitors Backup Battery
- ♦ Battery-Backup Power Switching
- ♦ On-board Gating of Chip-Enable Signals

Ordering Information

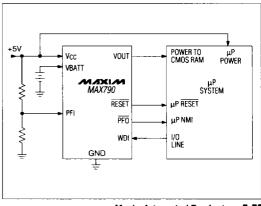
PART	TEMP. RANGE	PIN-PACKAGE
MAX790CPA	0°C to +70°C	8 Plastic DIP
MAX790C/D	0°C to +70°C	Dice*
MAX790EPA	-40°C to +85°C	8 Plastic DIP
MAX790MJA	-55°C to +125°C	8 CERDIP
MAX791CPE	0°C to +70°C	16 Plastic DIP
MAX791CWE	-0°C to +70°C	16 Wide SO
MAX791C/D	0°C to +70°C	Dice*
MAX791EPE	-40°C to +85°C	16 Plastic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

^{*}Consult factory for dice specifications.

Pin Configurations



Typical Operating Circuit



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_ Maxim Integrated Products