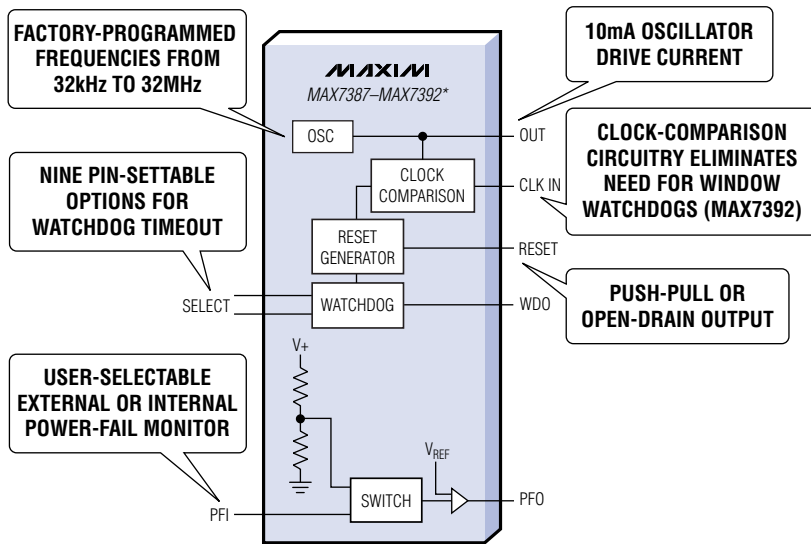


# ROBUST SILICON OSCILLATOR INCLUDES POWER FAIL, WATCHDOG, AND RESET

**New Silicon Oscillators, Available in Factory-Trimmed Frequencies from 32kHz to 32MHz, Are Immune to Dirt, Humidity, and Vibration**

The MAX7387–MAX7392\* family offers all the popular supervisory functions with a medium-accuracy silicon oscillator in a single, surface-mount package. The devices are ideal for high-reliability systems. The silicon oscillator does not utilize external high-impedance nodes commonly found in ceramic resonator circuits, and is less susceptible to dirty, humid, or high-EMI/ESD conditions. Because the oscillator does not rely on mechanical methods, it is less sensitive to environmental concerns such as vibration and shock. The MAX7392 provides the maximum coverage for various failure modes by adding a clock-detection circuit, eliminating the need for window watchdog timers.



- ◆ 3.0V to 5.5V Operation
- ◆ Clock-Speed Switch (MAX7391/2) Provides  $f_{OUT}$  or  $f_{OUT}/2$
- ◆ Fully Specified from -40°C to +125°C
- ◆ Reset Valid Down to 1V Supply Voltage
- ◆ Pin-Programmable Watchdog Timeouts (Eight Selections from 16ms to 2s plus Disable)
- ◆ Reset Asserted Until Valid Oscillator Output

Part	WDI	WDO	PFI	PFO	Speed Switch	Clock Comparison	Package
MAX7387	✓	✓	✓	✓			10- $\mu$ MAX <sup>®</sup>
MAX7388	✓			✓			8- $\mu$ MAX, 8-DIP
MAX7389	✓	✓					8- $\mu$ MAX, 8-DIP
MAX7390	✓				✓		8- $\mu$ MAX, 8-DIP
MAX7391			✓	✓	✓		8- $\mu$ MAX, 8-DIP
MAX7392*	✓		✓	✓		✓	10- $\mu$ MAX

$\mu$ MAX is a registered trademark of Maxim Integrated Products, Inc.  
 \*Future product—contact factory for availability.



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