

Product Overview

MC34064: Voltage Supervisor, Undervoltage Sensing Circuit

For complete documentation, see the data sheet.

The MC33064/MC34064 is an undervoltage sensing circuit specifically designed for use as a reset controller in microprocessor-based systems. It offers the designer an economical solution for low voltage detection with a single external resistor. The MC33064/MC34064 features a trimmed-in-package bandgap reference, and a comparator with precise thresholds and built-in hysteresis to prevent erratic reset operation. The open collector reset output is capable of sinking in excess of 10 mA, and operation is guaranteed down to 1.0 V input with low standby current. The MC devices are packaged in 3-pin TO-226AA, 8-pin SO-8, Micro-8 and 5-pin SOT-23/TSOP-5 surface mount packages. The NCV device is packaged in SO-8 and TO-226AA. Applications include direct monitoring of the 5.0 V MPU/logic power supply used in appliance, automotive, consumer and industrial equipment.

Features

- Trimmed-In-Package Temperature Compensated Reference
- Comparator Threshold of 4.6 V at 25° C
- Precise Comparator Thresholds Guaranteed Over Temperature
- Comparator Hysteresis Prevents Erratic Reset
- Reset Output Capable of Sinking in Excess of 10 mA
- Internal Clamp Diode for Discharging Delay Capacitor
- Guaranteed Reset Operation with 1.0 V Input
- Low Standby Current
- Economical TO-226AA, SO-8, Micro-8 and SOT-23/TSOP-5 Surface Mount Packages
- Pb-Free Packages are Available

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Voltages Monitored	V _{OC} Max (V)	V _(rO) Typ (V)	I _O Typ (µA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
MC34064D-5G		Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	SOIC-8
MC34064D-5R2G	0.2857	Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	SOIC-8
MC34064DM-5R2G		Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	Micro8™
MC34064P-5G	0.2121	Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	TO-92
MC34064P-5RAG	0.2347	Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	TO-92
MC34064P-5RMG		Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	TO-92
MC34064P-5RPG		Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	TO-92
MC34064SN-5T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	6.5	4.61	390	Low	No	No	No	TSOP-5 / SOT-23-5

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

Created on: 11/26/2020