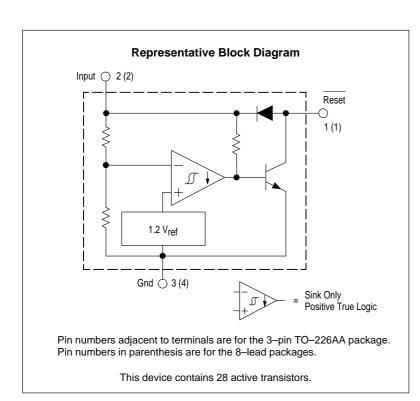


Micropower Undervoltage Sensing Circuits

The MC34164 series are undervoltage sensing circuits specifically designed for use as reset controllers in portable microprocessor based systems where extended battery life is required. These devices offer the designer an economical solution for low voltage detection with a single external resistor. The MC34164 series features a bandgap reference, a comparator with precise thresholds and built–in hysteresis to prevent erratic reset operation, an open collector reset output capable of sinking in excess of 6.0 mA, and guaranteed operation down to 1.0 V input with extremely low standby current. These devices are packaged in 3–pin TO–226AA, 8–pin SO–8 and Micro–8 surface mount packages.

Applications include direct monitoring of the 3.0 or 5.0 V MPU/logic power supply used in appliance, automotive, consumer, and industrial equipment.

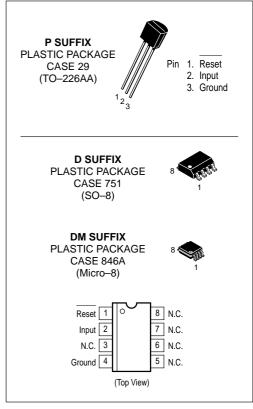
- Temperature Compensated Reference
- Monitors 3.0 V (MC34164-3) or 5.0 V (MC34164-5) Power Supplies
- Precise Comparator Thresholds Guaranteed Over Temperature
- Comparator Hysteresis Prevents Erratic Reset
- Reset Output Capable of Sinking in Excess of 6.0 mA
- Internal Clamp Diode for Discharging Delay Capacitor
- Guaranteed Reset Operation With 1.0 V Input
- Extremely Low Standby Current: As Low as 9.0 μA
- Economical TO-226AA, SO-8 and Micro-8 Surface Mount Packages



MC34164 MC33164

MICROPOWER UNDERVOLTAGE SENSING CIRCUITS

SEMICONDUCTOR TECHNICAL DATA



ORDERING INFORMATION

Device	Operating Temperature Range	Package
MC34164D-3	$T_A = 0^{\circ} \text{ to } +70^{\circ}\text{C}$	SO-8
MC34164D-5		5
MC34164DM-3		
MC34164DM-5		Micro-8
MC34164P-3		TO-226AA
MC34164P-5		
MC33164D-3	T _A = -40° to +125°C	SO-8
MC33164D-5		30-6
MC33164DM-3		Mission
MC33164DM-5		Micro-8
MC33164P-3		TO 00044
MC33164P-5		TO-226AA