



MOTOROLA

## Brushless DC Motor Controller

The MC33033 is a high performance second generation, integrated feature, monolithic brushless dc motor controller which has evolved from Motorola's full featured MC33034 and MC33035 controllers. It contains all of the drive functions required for the implementation of open loop, three or four phase motor control. The device consists of a motor position decoder for proper commutation sequencing, temperature compensated reference capable of supplying current control, frequency programmable bandwidth regulation, fully adjustable error amplifier, pulse width modulator (PWM), three speed collectors for drives, and a high current bidirectional pole lockout device ideally suited for driving power MOSFETs. Unlike its predecessors, it does not feature separate drive output ready and ground pins, brake input, or fault output signal.

Included in the MC33033 are protection features consisting of under-voltage lockout, cycle-by-cycle current limiting with a selectable time delay, and integrated shutdown mode, bidirectional thermal shutdown.

Other motor control functions include speed loop speed, forward or reverse, and a non-saturating brake. The MC33033 is designed to operate from a 5V to 15V supply with a quiescent current of 500mA or 1200mA, and a 100mA shutdown current.

- 12 to 20 Motor Bits
- Under-voltage Lockout
- 10 20 or 400ns Capacitive Motorposition Sensor Phase
- Easy-to-use Error Amplifier for Closed Loop Servo Applications
- High Current Drives (Can Control External 4-Phase MOSFET Bridge)
- Cycle-by-Cycle Current Limiting
- Integrated Thermal Shutdown
- Shutdown Current of 1200mA or 500mA
- Also Includes Comprehensive DC Motor with External MOSFET H-Bridge

### ORDERING INFORMATION

Device	Operating Temperature Range	Package
MC33033	$T_A = -40^{\circ}\text{C} \text{ to } +85^{\circ}\text{C}$	SO-28
MC33033P		Plastic DIP

Orderable quantities are MC33033MC

## MC33033

### BRUSHLESS DC MOTOR CONTROLLER

#### SEMICONDUCTOR TECHNICAL DATA

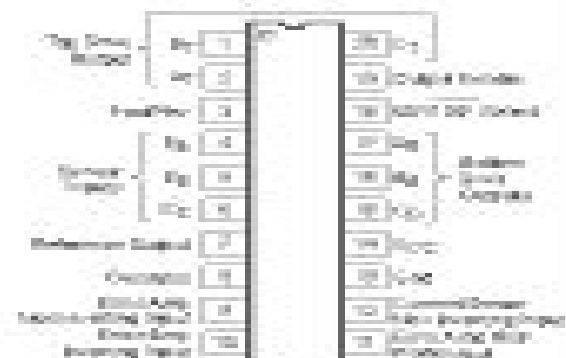


TOP VIEW  
PLASTIC DIP-28  
GAGE 708



SIDE VIEW  
PLASTIC DIP-28  
GAGE 708

#### PIN CONNECTIONS



(Top View)

**Mc33033**

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