



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 tachometer divider, fully accessible error amplifier, pulse width modulator (PWM), three speed collector for drives, and a high current bidirectional pole lockout device ideally suited for driving power MOSFETs. Unlike its predecessors, it does not feature separate clock, 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 50mA or 120mA, and a 100kHz bandwidth.

- 12 to 20 Motor Bits
- Under-voltage Lockout
- 10 20 or 40kHz Capacitive Motor Supplying Sensor Phase
- Easy Accessible Error Amplifier for Closed Loop Sensor Applications
- High Current Drives (Can Control External 4-Phase MOSFET Bridge)
- Cycle-By-Cycle Current Limiting
- Integrated Thermal Shutdown
- Selectable BODIPY or 120VDDP Sensor Phase
- 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 MC33033MD

## MC33033

### BRUSHLESS DC MOTOR CONTROLLER

#### SEMICONDUCTOR TECHNICAL DATA

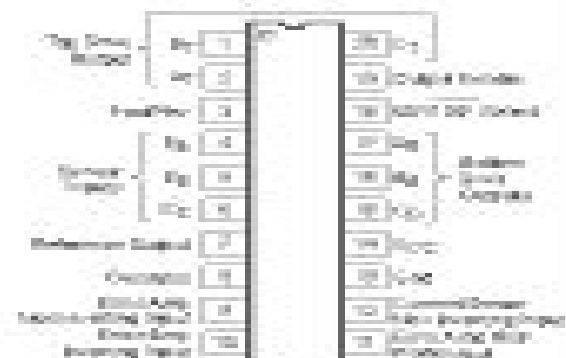


28-PIN  
PLASTIC PACKAGE  
CASE 19



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### PIN CONNECTIONS



(Top View)

Mc33033

**A Gutmann**



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