

MC33035, NCV33035

Brushless DC Motor Controller

The MC33035 is a high performance second generation monolithic brushless DC motor controller containing all of the active functions required to implement a full featured open loop, three or four phase motor control system. This device consists of a rotor position decoder for proper commutation sequencing, temperature compensated reference capable of supplying sensor power, frequency programmable sawtooth oscillator, three open collector top drivers, and three high current totem pole bottom drivers ideally suited for driving power MOSFETs.

Also included are protective features consisting of undervoltage lockout, cycle-by-cycle current limiting with a selectable time delayed latched shutdown mode, internal thermal shutdown, and a unique fault output that can be interfaced into microprocessor controlled systems.

Typical motor control functions include open loop speed, forward or reverse direction, run enable, and dynamic braking. The MC33035 is designed to operate with electrical sensor phasings of 60°/300° or 120°/240°, and can also efficiently control brush DC motors.

Features

- 10 to 30 V Operation
- Undervoltage Lockout
- 6.25 V Reference Capable of Supplying Sensor Power
- Fully Accessible Error Amplifier for Closed Loop Servo Applications
- High Current Drivers Can Control External 3-Phase MOSFET Bridge
- Cycle-By-Cycle Current Limiting
- Pinned-Out Current Sense Reference
- Internal Thermal Shutdown
- Selectable 60°/300° or 120°/240° Sensor Phasings
- Can Efficiently Control Brush DC Motors with External MOSFET H-Bridge
- NCV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- Pb-Free Packages are Available



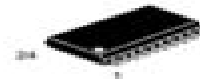
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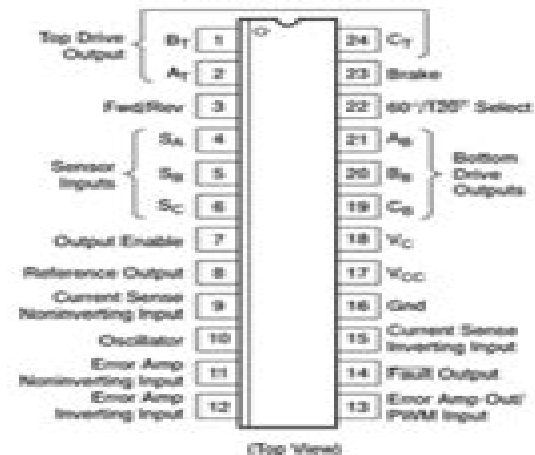
PDIP-24
P SUFFIX
CASE 724



SOIC-24 WB
DW SUFFIX
CASE 751E



PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 28 of this data sheet.

DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 28 of this data sheet.

Mc33035 Brushless Dc Motor Controller

L Reisser



Mc33035 Brushless Dc Motor Controller:

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Table of Contents Mc33035 Brushless Dc Motor Controller

1. Understanding the eBook Mc33035 Brushless Dc Motor Controller
 - The Rise of Digital Reading Mc33035 Brushless Dc Motor Controller
 - Advantages of eBooks Over Traditional Books
2. Identifying Mc33035 Brushless Dc Motor Controller
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mc33035 Brushless Dc Motor Controller
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mc33035 Brushless Dc Motor Controller
 - Personalized Recommendations
 - Mc33035 Brushless Dc Motor Controller User Reviews and Ratings
 - Mc33035 Brushless Dc Motor Controller and Bestseller Lists
5. Accessing Mc33035 Brushless Dc Motor Controller Free and Paid eBooks
 - Mc33035 Brushless Dc Motor Controller Public Domain eBooks
 - Mc33035 Brushless Dc Motor Controller eBook Subscription Services
 - Mc33035 Brushless Dc Motor Controller Budget-Friendly Options

6. Navigating Mc33035 Brushless Dc Motor Controller eBook Formats
 - ePub, PDF, MOBI, and More
 - Mc33035 Brushless Dc Motor Controller Compatibility with Devices
 - Mc33035 Brushless Dc Motor Controller Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mc33035 Brushless Dc Motor Controller
 - Highlighting and Note-Taking Mc33035 Brushless Dc Motor Controller
 - Interactive Elements Mc33035 Brushless Dc Motor Controller
8. Staying Engaged with Mc33035 Brushless Dc Motor Controller
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mc33035 Brushless Dc Motor Controller
9. Balancing eBooks and Physical Books Mc33035 Brushless Dc Motor Controller
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mc33035 Brushless Dc Motor Controller
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mc33035 Brushless Dc Motor Controller
 - Setting Reading Goals Mc33035 Brushless Dc Motor Controller
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mc33035 Brushless Dc Motor Controller
 - Fact-Checking eBook Content of Mc33035 Brushless Dc Motor Controller
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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