



# NJW4303

## Hall Element-PWM Type 3-Phase Motor Control IC

### ■ GENERAL DESCRIPTION

The NJW4303 is a 3-Phase Brushless DC Motor Control pre-driver IC with PWM control. It generates the most optimal current flow patterns by receiving rotor magnetic pole detection signals from hall elements of 3-phase brushless motor.

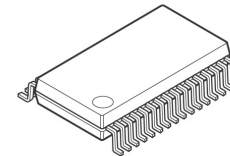
Operational voltage range for the IC has margin as 9.0V to 35V (maximum voltage of 40V), and it fits for a 12V/24V power supply.

It is possible to put practical use such as speed control by internal oscillation circuit, and torque limiter control by current sensory circuit. With NJW4303, high reliability of various motor drive controls can be realized by a variety of function and a substantial protection circuit.

### ■ FEATURE

- Supply Voltage : 9.0V ~ 35V
- PWM Pre Driver : Upper = Pch / Lower = Nch
- PWM Control Circuit
- Forward / Reverse Detection : Changeable while Roating
- PWM Oscillation Circuit : Setting by External Capacitor
- Protection Circuit : ILimit, UVLO, TSD, LD
- Soft Start Function
- Short Brake Function
- ON/OFF Function : Stop with S/S Pin
- 120° / 60° Phase Difference Change Function
- Multi FG Output : 2 bit Input Change Type
- Controllable Dead Time Settings
- Package : SSOP-32

### ■ PACKAGE OUTLINE



NJW4303V

### ■ BLOCK DIAGRAM

