

## 6+1CH serial input motor driver IC for DSC

### Features

- Build-in two micro-steps drive mode is possible from 2-2 phase stepper drive to maximum 256 resolution micro-steps.
- Built in 2 full-swing/constant voltage/constant current drivers switched by serial control with brake function
- Low on-resistance (1.2Ω, sum of on-resistance of upside and bottom side)
- Output current :  $I_{OUT} \leq 0.8A(\text{max.})$  for each channel
- Build-in thermal shutdown (TSD, 150°C)
- All power supply systems (VCC, VM12, VM34, VM5, VM6) can be set up with an independent power supply
- Power save mode corresponds by serial control setup
- PI (photo interrupter drive) 3 channel built-in.
- Small 40TQFN (5x5mm) is adopted
- Build-in POR (power on reset).

### Applications

- Stepping motor driver/ DC motor driver motor driver for DSC

### General Description

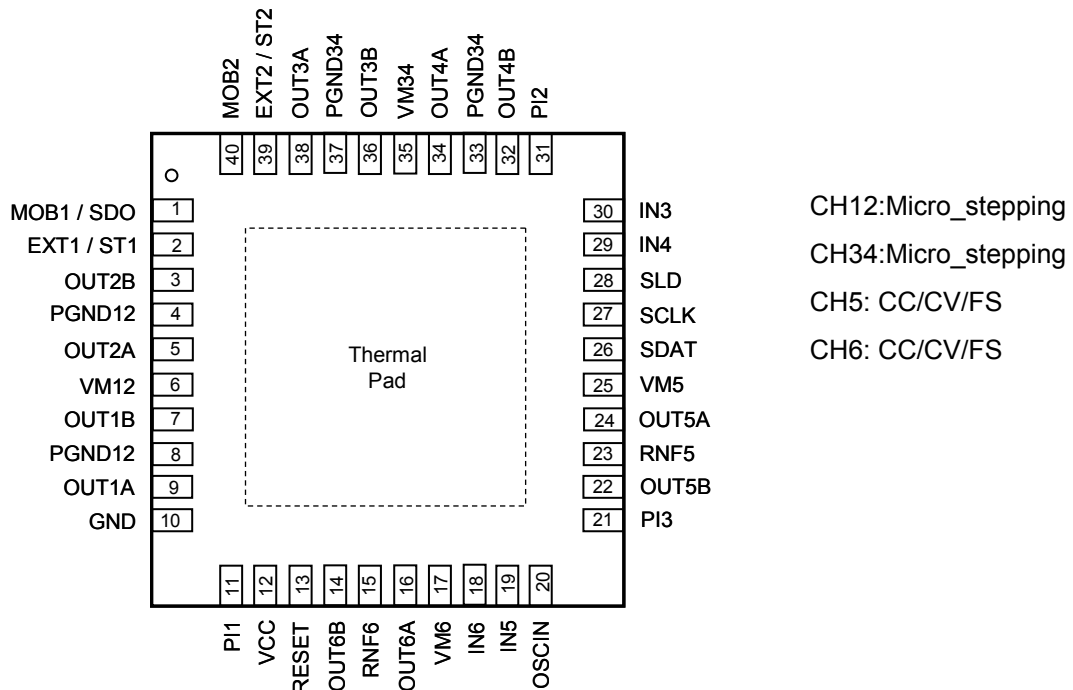
G2001 is a 6+1-channel H-Bridge motor drivers IC for the digital camera and so on. It has two micro-stepping drivers, two full-swing/constant voltage/constant current drivers. G2001 can be operated in serial control mode or partial exterior control mode. When operating in partial exterior control mode, the mode of each CH is fixed by initial serial control setting. When operating in serial control mode, the mode of each driver can be setting by serial control.

### Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G2001RG1U	2001	-20°C to +85°C	TQFN5X5-40

Note: RG: TQFN5X5-40  
 1: Bonding Code  
 U: Tape & Reel

### Pin Configurations



**G2001 TQFN5X5-40**

Note: Thermal Pad must connect to the Ground for excellent power dissipation.