

产品概览

LB11696V: Direct PWM Drive Brushless Motor Predriver

欲看完整文档，请参阅数据表。

LB11696V is a direct PWM drive brushless motor predriver IC designed for 3-phase power brushless motors. A motor driver circuit with the desired output power (voltage and current) can be implemented by adding discrete transistors in the output circuits. Furthermore, the LB11696V provides a full complement of protection circuits allowing it to easily implement high reliability drive circuits. This device is optimal for driving all types of large scale motors, such as those used in air conditioners and on-demand water heaters.

特性

- Direct PWM drive, controlled either by control voltage or PWM variable duty pulse input
 - Built-in forward/reverse switching circuit
 - Start/stop mode switching circuit
 - Current limiter circuit (Supports 0.25V (typical) reference voltage sensing based high-precision detection)
 - Under voltage protection circuit (The operating voltage can be set with a zener diode)
 - Automatic recovery type constraint protection circuit with protection operating state discrimination output (RD pin)
 - Supports thermistor based thermal protection of the output transistors
 - 3-phase bipolar drive
 - Built-in input amplifier
 - 5.0 V regulator output (VREG pin)
- For more features, see the data sheet

优势

- Low consumption, Easy Design
- Easy control
- Stop mode power saving function
- Current protection
- Low voltage protection
- Recovery Lock Protection
- Thermal protection

应用

- Consumer
- White Goods / Office Equipment

终端产品

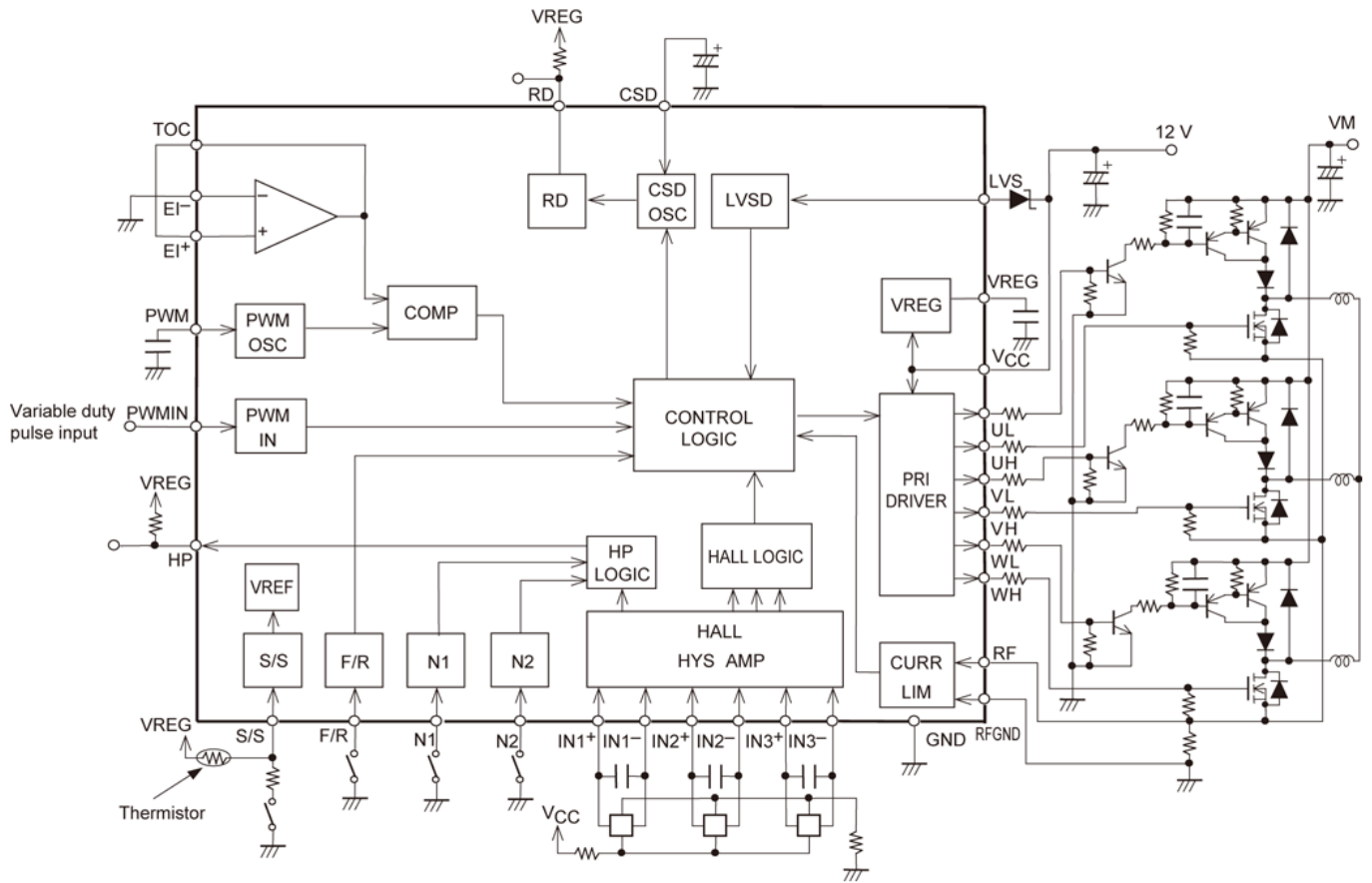
- Air Purifier
- Clothes Dryer
- Clothes Washer

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Phase	V_M Min (V)	V_M Max (V)	V_{CC} Min (V)	V_{CC} Max (V)	I_O Max (A)	I_O Peak Max (A)	Control Type	Package Type
LB11696V-TLM-E	0.8266	Pb-free Halide free	Active	3			4.5	17	0.03		DC	SSOP-30
LB11696V-W-AH	1.3066	Pb-free Halide free	Active	3			4.5	17	0.03		PWM DC	SSOP-30

应用框图

NMOS transistor + PNP transistor drive (low side PWM)
using a 12V power supply with thermal protection impliment using a thermistor



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