



Weltrend Semiconductor, Inc.

WT7012

Dual Motor Driver and DC-DC Converter

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E-Tech Electronics Ltd.

Hong Kong Headquarters:

Unit D, 3/F., Unison Industrial Centre,
27-31 Au Pui Wan Street, Fo Tan, Shatin, N.T. H.K.
Tel.: (852) 2607 0218 Fax (852) 2607 0155
E-Mail: mktg@e-tech.com.hk
Web Site: <http://www.e-tech.com.hk>

ShenZhen Branch:

Unit 1403, 14/F, Pacific Commercial Building,
Chia Pin Road, ShenZhen, China
Tel: (0755) 2136 018 Fax: (0755) 2136 008
E-Mail: sales_sz@e-tech.com.hk

FUNCTION DESCRIPTION

The WT7012 consist a monolithic bridge driver power MOS FET for its driver stage. It is provided with forward, reverse and brake functions and is ideal as a driver circuit for a motor that winds or rewinds the film in a camera. The DC-DC is PWM control step-up switching regulator which mainly consists of a reference voltage source, an oscillation circuit, and an error amplifier.

FEATURES

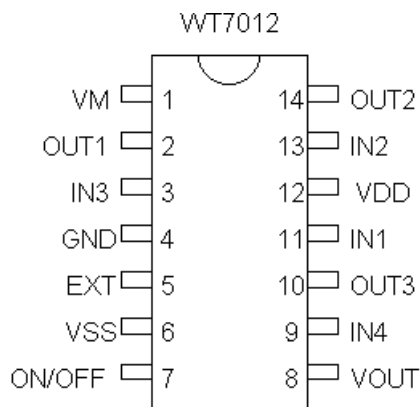
Motor drive

- High drive current 2.0A, VDD, VM at 5V.
- Low ON resistance
- At Standby will turns OFF charge pump circuit.
- Low voltage drive (1.8V Min.)
- Thermal protection circuit.

DC-DC Converter

- Low voltage operation.
- Duty ratio: Built-in PWM control circuit
- External parts: Transistor, coil, diode, and capacitor only
- Shutdown function, During shutdown: 1uA (max.)
- Output voltage: 3V

PIN CONFIGURATION



PIN DESCRIPTION

No.	Pin Name	I/O	Description
1	VM	I	Motor supply voltage
2	OUT1	O	Loading terminal 1
3	IN3	I	Input control 3
4	GND		Ground
5	EXT	O	External transistor connection (DC Converter).
6	VSS		Ground (DC Converter).
7	ON/OFF	I	Shutdown control (DC Converter). ON:Low/OFF:High .
8	VOUT	I	Output voltage (DC Converter).
9	IN4	I	Input control 4
10	OUT3	O	Loading terminal 3
11	IN1	I	Input control 1
12	VDD	I	Supply voltage
13	IN2	I	Input control 2
14	OUT2	O	Loading terminal 2