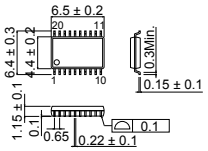
2-Channel H-Bridge Motor Driver
BD6735FV

●Summary

BD6735FV is a DMOS-driven 2-channel H-bridge motor driver. The driver is capable of driving both DC motors and stepping motors, and can be switched between forward, reverse, brake and shutdown (idle) modes according to the input logic.

●External Dimensions Diagram (units: mm)



SSOP-B20

●Features

1) Two built-in H-bridge type driver circuits
2) Low ON-resistance DMOS driving
3) Accommodates a power supply up to 3.3V
4) Built-in DMOS gate step-up circuit
5) Logic switching is possible for DC and stepping motors (PWM controllable)
6) Equipped with power-saving functionality
7) Built-in thermal shutdown circuit
8) Equipped with low voltage detection circuit

●Applications

Camera lens drivers for DSCs, DVCs, etc.
Audio peripheral equipment
OA peripheral equipment

●Absolute Maximum Ratings (Ta=25ûC)

Parameter	Symbol	Limits	Unit
Power supply voltage Vcc	Vcc	10	V
Power supply voltage VM	VM	10	V
Acceptable loss	Pd	810 *	mW
Operating temperature range	Topr	–30 to +85	ûC
Storage temperature range	Tstg	–55 to +150	ûC

* When Ta = 25¡C or greater, the power decreases by 6.48 mW per 1¡C.

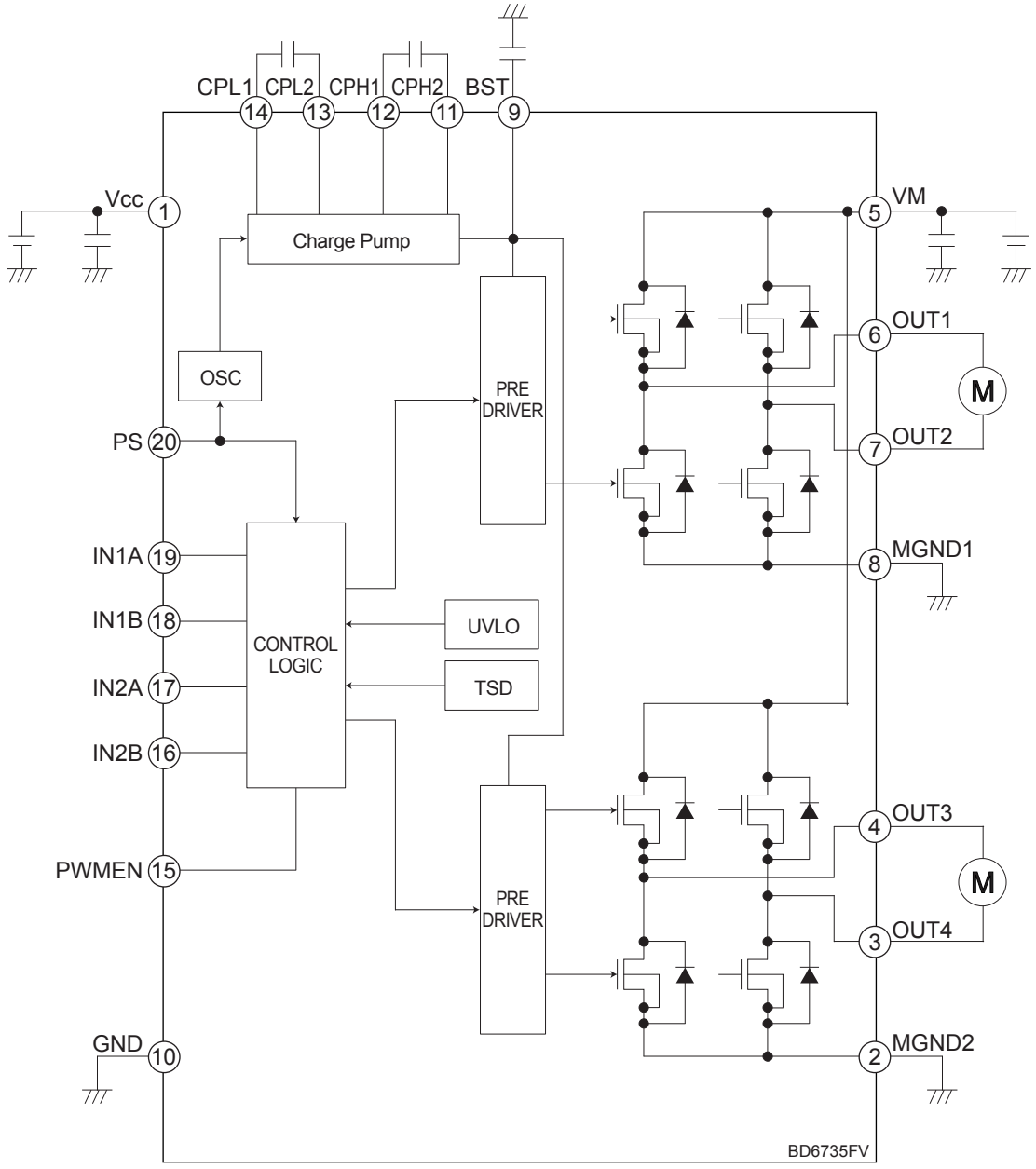
●Recommended Operating Conditions (Ta=25ûC)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage Vcc	Vcc	2	5	8	V
Power supply voltage VM	VM	2	5	8	V

●Electrical characteristics (unless specified otherwise, Ta = 25¡C, Vcc = 5 V, and VM = 5 V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Circuit current at standby	ICCST	–	0	1	µA	PS=0V
Circuit current operation	ICC	0.5	2	4	mA	PS = Hi, control input = 100 kHz
Output ON resistance	RON	–	1.0	1.35	½	Io=±700mA, sum of high and low
PS terminal H level input voltage	VPSH	2.0	–	Vcc	V	
PS terminal L level input voltage	VPSL	–0.3	–	0.5	V	
Control input terminal H level input voltage	VINH	2.0	–	Vcc	V	
Control input terminal L level input voltage	VINL	–0.3	–	0.7	V	
Control input terminal hysteresis width	VINHYS	50	100	200	mV	

●Application Circuit Example



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