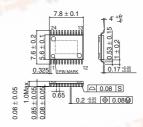
Stepping Motor Driver BD6775EFV

Description

BD6775EFV is a general-purpose stepping motor driver for OA Equipment. This driver is a bipolar type, available for 2 phase, 1-2 phase, and W1-2 phase motors.

Dimension (Unit : mm)



HTSSOP-B24

Features

- 1) MOS FET output(External diode is not necessary.)
- 2) Output OFF time is determined by external C, R value
- 3) High efficiency due to synchronous rectifier drive
- 4) Small and High power package(Exposed PAD)

Applications

OA Equipment(Printer, Scanner etc...)

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage Vcc	Vcc	7	V
Supply voltage V _M	VM	40	V
Input voltage	VIN	Vcc	V
Power dissipation	Pd	1.1	W
Operating temperature range	Topr	-20 to +75	°C
Storage temperature range	Tstg	-55 to +150 ²	O°
Junction temperature	Tj	+150	°C
Maximum output current	lout	800	mA

¹ Debating in done at 8.8mW/°C for operating above Ta=25°C. 70mmX70mmX1.6mm glass epoxy board.

2 Do not, however exceed Pd, ASO and Tj=150°C.



Recommended Operating Conditions (Ta=25°C)

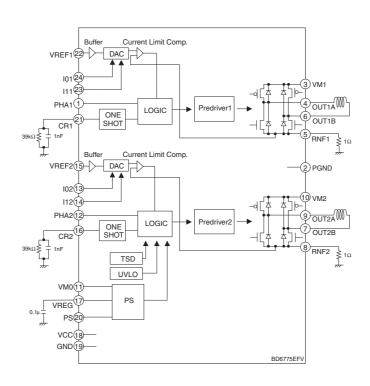
Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply voltage Vcc	Vcc	4.5	_	6.0	V
Supply voltage V _M	Vм	10	_	37	V

This product described in this specification isn't judged whether it applies to COCOM regulations. Please confirm in case of export.

● Electrical characteristics (Ta=25°C, Vcc=5V, Vм=35V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Circuit current at standby	Iccst	250	360	400	μΑ	PS=0V
Circuit current	Icc	4.4	5.8	7.2	mA	PS=H
Vм current at standby	IVMST	-	0	10	μΑ	PS=0V
V _M Circuit current	IVM	2	3	4	mA	PS=H
[Control input]						
H level input voltage	VINH	2.0	-	_	V	PHA1, PHA2, I01, I11, I02, I12
L level input voltage	VINL	-	-	0.8	V	PHA1, PHA2, I01, I11, I02, I12
[Output]						
Output ON Resistance	Ron	-	3	3.6	Ω	lo=±300mA, Sum of on-resistance of upside and bottom side
Output leak current	ILEAK	-	0	10	μΑ	
[Current Control Part]						
RNFX input current	IRNF	-2	-0.6	-	μΑ	RNF=0V
VREFX input current	IVREF	-1	-0.1	_	μΑ	
VREFX input voltage	VREF	0	_	2.0	V	
Comparator threshold (100%)	CTHLL	0.34	0.4	0.46	V	VREF=2V, Io=L, I1=L
Comparator threshold (67%)	CTHHL	0.227	0.267	0.307	V	VREF=2V, Io=H, I1=L
Comparator threshold (33%)	CTHLH	0.133	0.133	0.153	V	VREF=2V, Io=L, I1=H
Minimum ON time	TMINON	0.3	0.5	1.0	μS	R=39kΩ, C=1nF

Application Circuit



Notes

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