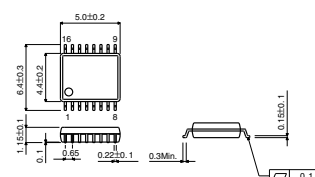


Actuator/Motor Driver for CD-ROM BH6526FV

●Description

BH6526FV is a 2channel PWM driver developed for driving actuator and motor of CD-ROM. This IC has achieved lower power consumption of the set by using power MOS FET in output. Furthermore, using a small SSOP-B16 package and reducing external parts can achieve the size reduction.

●Dimension (Units : mm)



●Features

- 1) Lower power consumption of sets by adopting PWM system
 - 2) Narrow dead band allows good play ability
 - 3) Few external parts required
 - 4) Small SSOP-B16 package
 - 5) Power supply voltage : 5V
- Pre-driver block : $V_{cc}+1.7V \sim 11.5V$

SSOP-B16

●Applications

CD-ROM, DVD-ROM, DVD

●Absolute Maximum Ratings ($T_a=25^{\circ}C$)

Parameter	Symbol	Limits	Unit
Power supply voltage	V_{cc}	9	V
Pre-driver supply voltage	$V_G(15pin)$	12	V
Driver output current	I_o	800	mA
Power dissipation	P_d	562.5 *	mW
Operating temperature range	T_{opr}	$-30 \sim +85$	$^{\circ}C$
Storage temperature range	T_{stg}	$-55 \sim +150$	$^{\circ}C$

*Derating : 4.5mW/ $^{\circ}C$ for operation above $T_a=25^{\circ}C$

On less than 3% (percentage occupied by copper foil), 70mmx70mm, t=1.6mm, glass epoxy mounting.

●Recommended Operating Conditions (Ta=25°C)

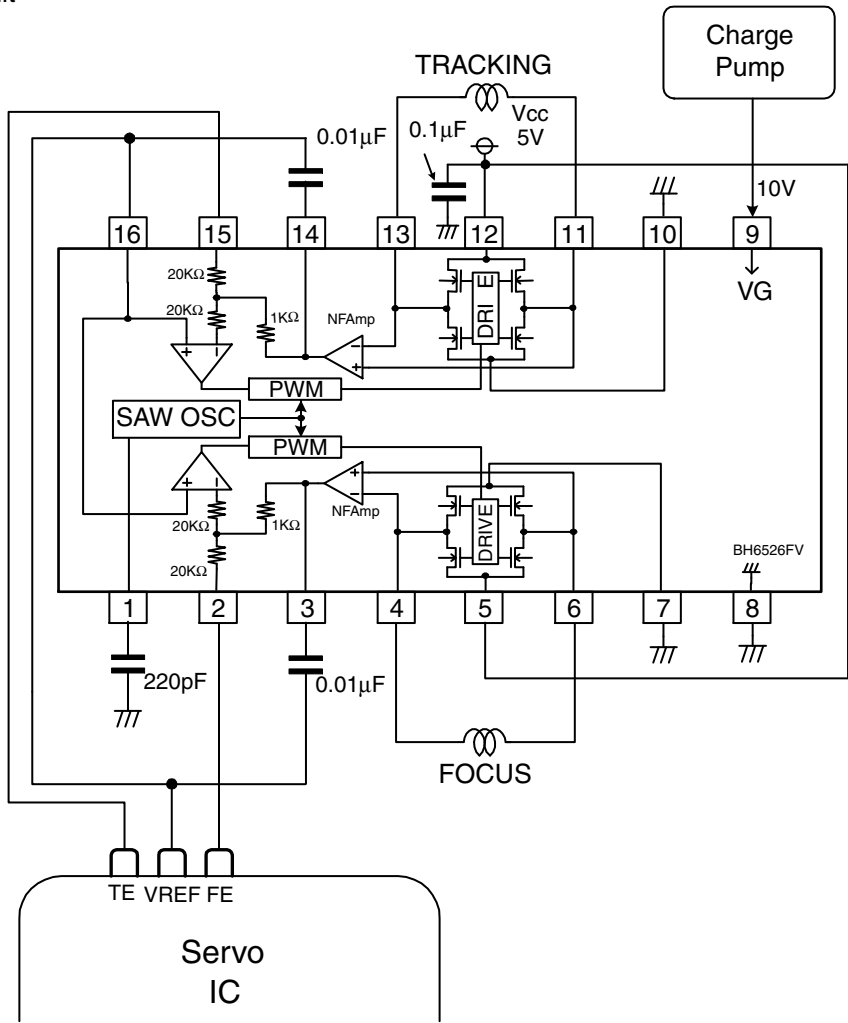
Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V _{CC}	3.5	5.0	5.5	V
Pre-driver supply voltage	V _G (9pin)	V _{CC} +1.7	10.0	11.5	V

●Electrical characteristics

(Unless otherwise noted; Ta=25°C, V_{CC}=5.0V, V_G=10.0V, V_{ref}=2.5V, R_L=8Ω+47μH)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Current at no signal (V _{CC})	I _{CC1}	—	1.9	3.7	mA	
PWM driver						
Output offset voltage	V _{OO}	−50	0	50	mV	
Voltage gain	G _{VC}	12.0	14.0	16.0	dB	
Output ON resistance	R _{ON}	1.0	1.7	2.4	Ω	Sum (Top+Bottom)

●Application Circuit



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