

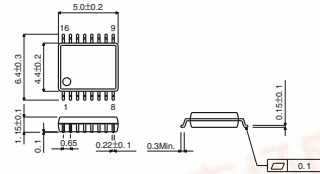


Actuator/Motor Driver for CD-ROM BH6526FV

● 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 : Vcc+1.7V~11.5V

SSOP-B16

● Applications

CD-ROM, DVD-ROM, DVD

● Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	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 ~ +85	°C
Storage temperature range	T _{stg}	-55 ~ +150	°C

*Derating : 4.5mW/°C for operation above Ta=25°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

