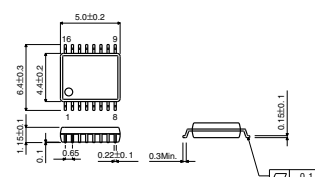


Actuator/Motor Driver for CD-ROM BH6526FV

●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)

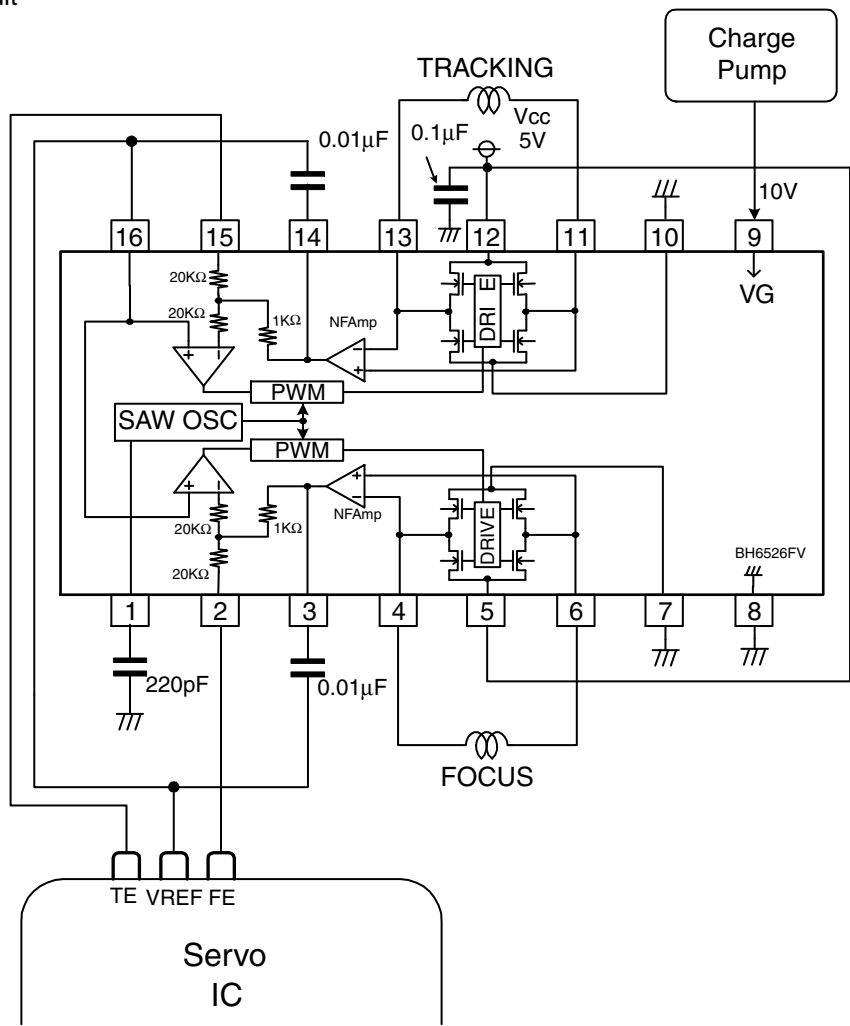
| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|---------------------------|-----------------------|----------------------|------|------|------|
| Power supply voltage | V _{CC} | 3.5 | 5.0 | 5.5 | V |
| Pre-driver supply voltage | V _G (9pin) | V _{CC} +1.7 | 10.0 | 11.5 | V |

●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



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