Reversible motor driver BA6218

The BA6218 reversible-motor driver supplies an output current of 0.7A (maximum). Two logic inputs allow four output modes: forward, reverse, idling, and braking. The logic section and power section have separate ground pins. By connecting an electronic governer, the IC can be used for controlling reversible, variable-speed motors.

Features

- 1) Built-in surge absorbing diodes.
- 2) Small standby supply current.

- 3) Wide range of operating voltage. (4.5~15V)
- 4) Interfaces with TTL devices.

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	18	٧
Power dissapation	Pd	800*	mW
Operating temperature	Topr	-20~ + 60	°C
Storage temperature	Tstg	−55∼ +125	°C
Maximum output current	lo	0.7	Α

^{*} Reduced by 8 mW for each increase in Ta of 1°C over 25°C.

● Recommended operating conditions (Ta = 25°C)

Parameter	Min.	Тур.	Max.	Unit
Voltage applied between Vcc (pin 6) and GND (pins 2 and 5)	4.5	_	15	V
Voltage applied between Vcc (pin 6) and COM (pin 8)	4.0	_	15	V

●Electrical characteristics (unless otherwise noted, Ta = 25°C, Vcc = 9V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	Measurement circuit
Supply current 1	lo1	18	34	50	mA	1pin "H" ,3pin "L" or 1pin "L" ,3pin "H" ,R∟=∞	Fig.2
Supply current 2	lo2	34	52	70	mA	1pin "H" , 3pin "H" , R∟=∞	Fig.2
Standby supply current	Ist	_	1	11	μΑ	1pin "L" , 3pin "L"	Fig.2
Input high level voltage	ViH	2.0	_	_	٧	_	Fig.2
Input low level voltage	VIL	_	_	0.8	٧	_	Fig.2
Input high level current	Ін	_	93	135	μΑ	V _{IN} =2.0V	Fig.2
Output saturation voltage	VCE	-	1.2	1.6	٧	lo Sum of high and low side output transistor voltages with lo = 200 mA	Fig.2

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Input truth table

3pin (IN)	1pin (IN)	7pin(OUT)	9pin(OUT)
Н	L	L	Н
L	Н	Н	L
Н	Н	L	L
L	L	OPEN	OPEN

Note: HIGH level input is 2.0 V or more. LOW level input is 0.8 V or less.

●Internal circuit configuration

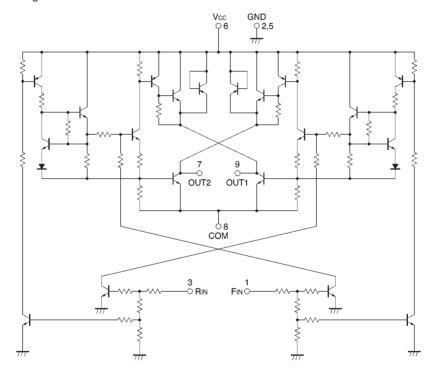
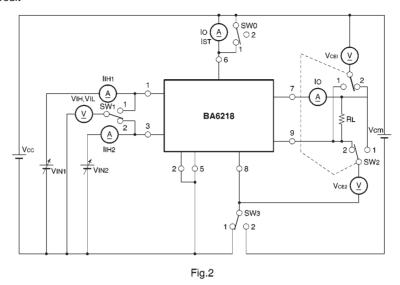


Fig.1

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Measurement circuit



Application examples

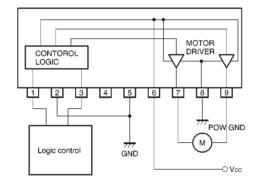
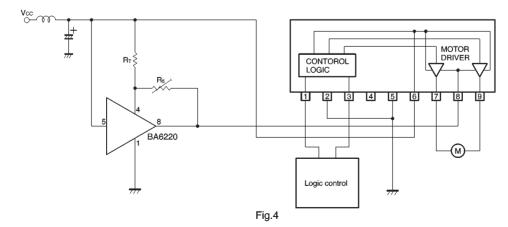
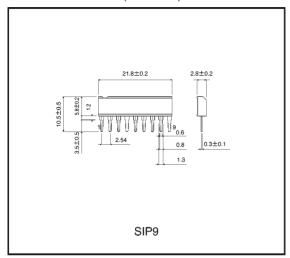


Fig.3



Motor driver ICs BA6218

●External dimensions (Units: mm)



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Datasheets for electronics components.