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 circuit current.

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

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	18	V
Power dissapation	Pd	800*	mW
Operating temperature	Topr	−20~60	℃
Storage temperature	Tstg	−55~125	℃
Maximum output current	Io	0.7	A

* Reduce power by 8 mW for each degree above 25℃.

●Recommended operating conditions (Ta=25℃)

Parameter	Min.	Typ.	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℃, Vcc=9V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	Measurement Circuit
Circuit current 1	I_{O1}	18	34	50	mA	1pin "H" ,3pin "L" or 1pin "L" ,3pin "H" ,$R_L=\infty$	Fig.2
Circuit current 2	I_{O2}	34	52	70	mA	1pin "H" , 3pin "H" , $R_L=\infty$	Fig.2
Standby circuit current	I_{ST}	—	1	11	μA	1pin "L" , 3pin "L"	Fig.2
HIGH level input voltage	V_{IH}	2.0	—	—	V	—	Fig.2
LOW level input voltage	V_{IL}	—	—	0.8	V	—	Fig.2
HIGH level input current	I_H	—	93	135	μA	V_{IN}=2.0V	Fig.2
Output saturation voltage	V_{CE}	—	1.2	1.6	V	Io Sum of high and low side output transistor voltages with Io = 200 mA	Fig.2

● Input/output truth table

3pin (IN)	1pin (IN)	7pin (OUT)	9pin (OUT)
H	L	L	H
L	H	H	L
H	H	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

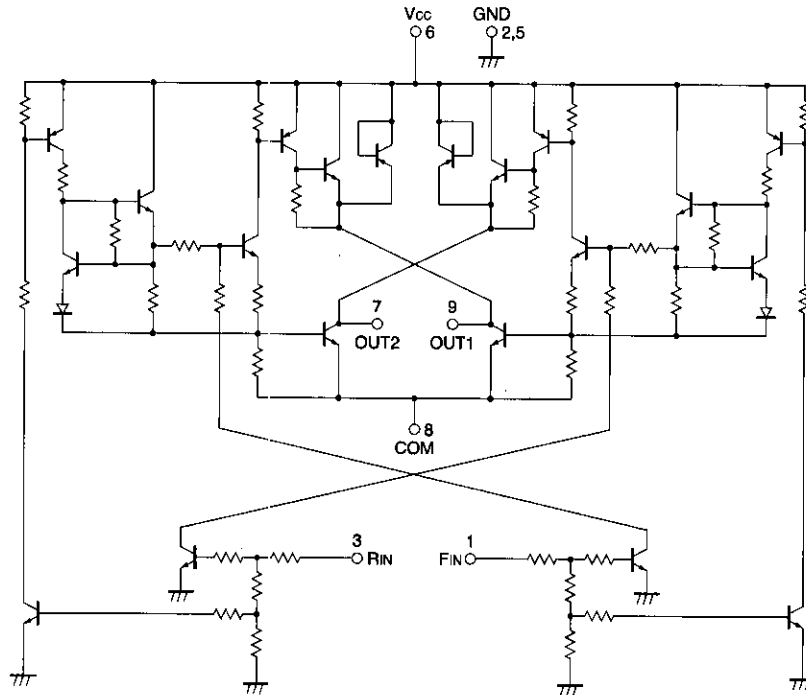● Equivalent circuit diagram

Fig.1
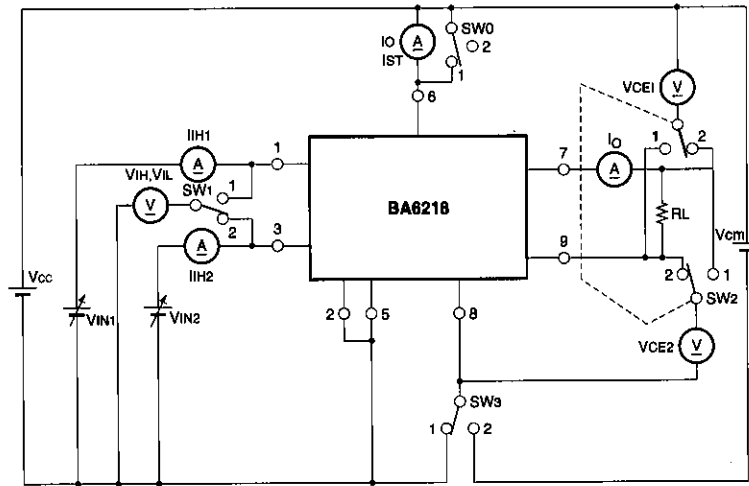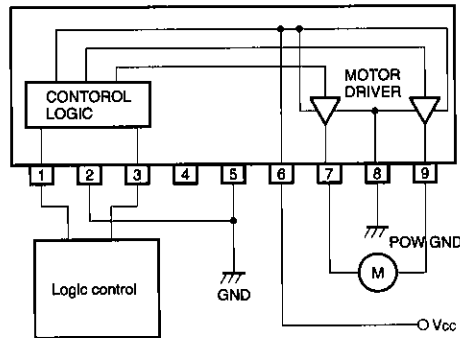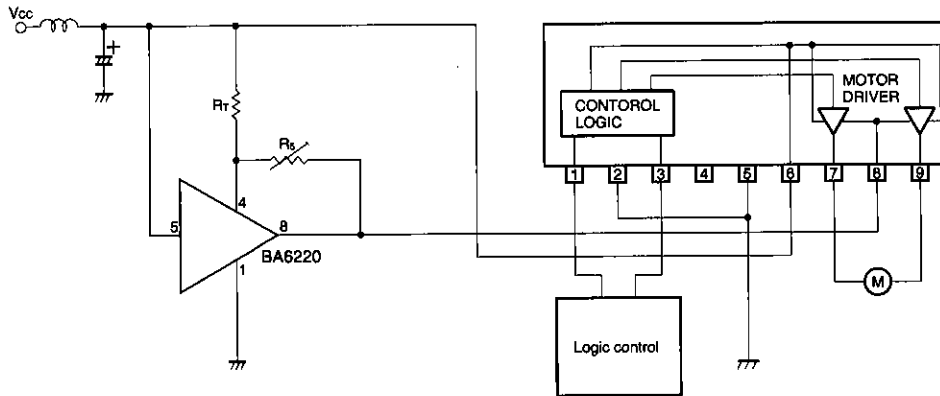
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● Measurement circuit

Fig.2

● Application circuit example

Fig.3

Fig.4

●External dimensions (Units: mm)

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