



■ General Description

KC6208X is monolithic IC used for driving reversible motors. It allow control of reversible motors in cassette player and other electrical equipment by using TTL-level and CMOS logic signals。

KC6208X contain a logic section, which controls forward and reverse rotations as well as forced stop, and an output power section, which can supply an output current of up to 200mA(typical) according to the logic control。

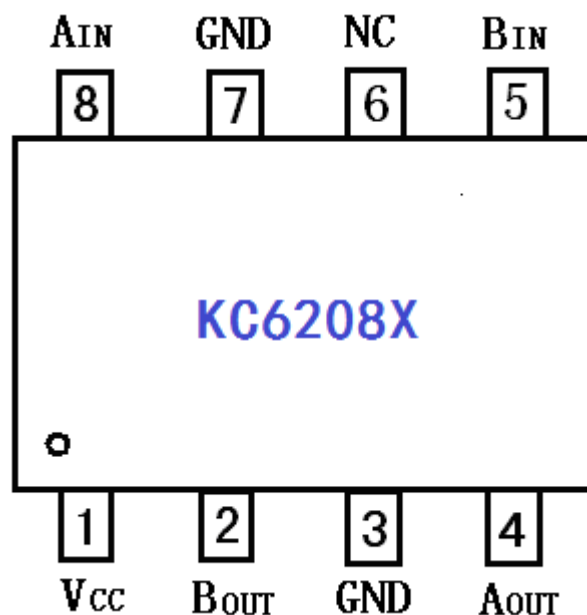
■ Features

1. Motor driving power transistors are built in(200mA typically)
2. Brake is applied when stopping the motor(when inputs A and B are both HIGH level)
3. Built-in diode to absorb surge currents
4. Very low standby circuit current when inputs A and B are both Low level
5. Wide rang of operating supply voltage(2.8V~15V)

■ Absolution Maximum Ratings (Ta=25°C, unless otherwise noted)

Symbol	Parameter	Ratings	Unit
Vcc	Supply voltage	15	V
Pd	Power dissipation	450	mW
Topr	Operating temperature	-20 ~ +78	°C
Tstg	Storage temperature	-40 ~ +125	°C
Iout	Maximum output current	500	mA

■ Pin description





Pin No.	Symbol	Function
1	VCC	Supply Voltage
2	BOUT	The output of B
3	GND	Grounding
4	AOUT	The output of A
5	BIN	The input of B
6	NC	
7	GND	Grounding
8	AIN	The input of B

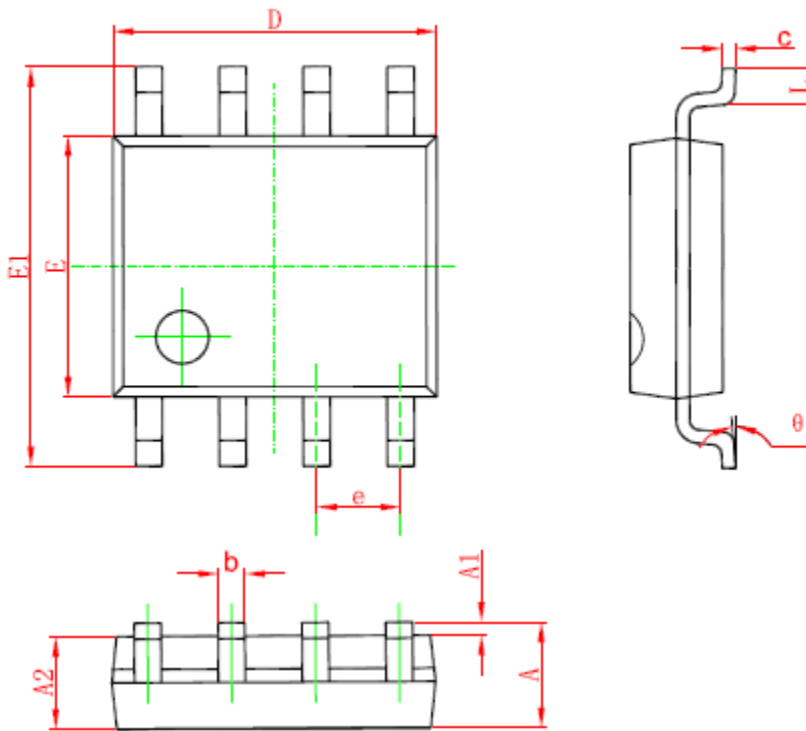
■ Input truth table

Pin8(AIN)	Pin5(BIN)	Pin4(AOUT)	Pin2(BOUT)	Function
H	L	H	L	Forward driving
L	H	L	H	Backward driving
H	H	L	L	Brake
L	L	OPEN	OPEN	Standby

■ Electrical Characteristics (Ta=25℃, VCC=9V)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Supply voltage	VCC		2.8		15	V
Standby current	IS	The tow Input level is low	-		2.0	μA
Current of no load	ICC	VCC=6V; Input high level	12	16	23	mA
The max output voltage	VHout	VCC=6V; IO=100mA	4.9	5.2	5.4	V
Input high level voltage	VIH		1.5			V
Input low level voltage	VIL				0.6	V
Input current	Ii	VCC=6V; Vi=2V		70	100	μA
		VCC=6V; Vi=3V		100	150	μA

■ Package Dimension (SOP8)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1	0.100	0.250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.006	0.010
D	4.700	5.100	0.185	0.200
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
e	1.270 (BSC)		0.050 (BSC)	
L	0.400	1.270	0.016	0.050
theta	0°	8°	0°	8°