

# CMD6208

Email: server@ceramate.com.tw

Revwww.DaltaSh2008U.com

Http: www.ceramate.com.tw

### **Reversible Motor Driver**

The CMD6208 and CMD6208F are monolithic ICs used for driving reversible motors. They allow control of reversible motors in cassette players and other electrical equipment by using TTL-level logic signals.

The ICs 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 100mA (typical) according to the logic control.

### www.DataShee@Features

- Motor driving power transistors are built in (100mA 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.
- Very low standby circuit current when inputs A and B are both LOW level.
- 5) Wide range of operating supply voltage (4.5  $\sim$  15.0V).
- 6) Direct control with the TTL logic.

#### ● Absolute maximum ratings (Ta = 25°C)

Par	ameter	Symbol	Limits	Unit	
Power supply	voltage	Vcc	18	V	
Power	CMD6208	Pd	700*1	mW	
dissipation	CMD6208F	Pd	450* <sup>2</sup>		
Operating tem	perature	Topr	-20~+60	c	
Storage temp	erature	Tstg	<b>−55∼</b> +125	°	
Maximum ou	tput current	Іоит	500	mA	

<sup>\*1</sup> Reduced by 7 mW for each increase in Ta of 1  $^{\circ}$ C over 25  $^{\circ}$ C.

### ●Recommended operating conditions (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Power supply voltage	Vcc	4.5	_	15	V

### Input truth table

3pin (Ain)	2pin (Bin)	8pin (Aout)	7pin (Bout)	
Н	L	Н	L	
L	Н	L	Н	
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.

<sup>\*2</sup> Reduced by 4.5 mW for each increase in Ta of 1°C over 25°C.

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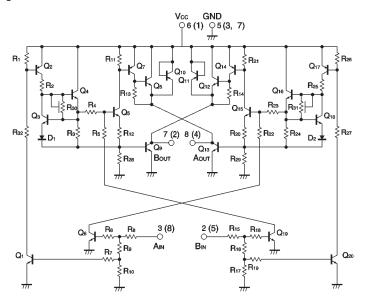
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#### ●Electrical characteristics (unless otherwise noted, Ta = 25°C and Vcc = 9V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Output current	lo	200	_	_	mA	
Output saturation voltage	Vce	_	_	1.6	V	Io=100mA
Input high level voltage	Vін	2.0	_	_	V	
Input low level voltage	VIL	_	_	0.8	V	
Standby supply current	lsт	_	_	0.4	mA	When inputs A and B are both LOW level
Input high level current	Ін	_	_	400	μA	V <sub>IH</sub> =4.5V

A diode that absorbs at least 500 mA is built in to give protection against surge currents with a pulse width of 10 ms and a duty ratio of 10% or less.

### Internal circuit configuration



Note: Figures in parentheses are for the CMD6208F Fig.1



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### Pin Description

PIN NO (SOP -8 )	PIN NO (SIP-9)	Symbol	I/O	Description
1	6	VCC	-	Power supply
2	7	BOUT	0	B Output
3	5	GND	•	Ground
4	8	AOUT	0	A output
5	2	BIN	I	B input
6	1,4	NC	•	
7		GND	•	Ground
8	3	AIN	Ī	A input

### External dimensions (Units: mm)

