

Product Specification

XBLW CP6208

单片双向马达驱动电路

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概述：

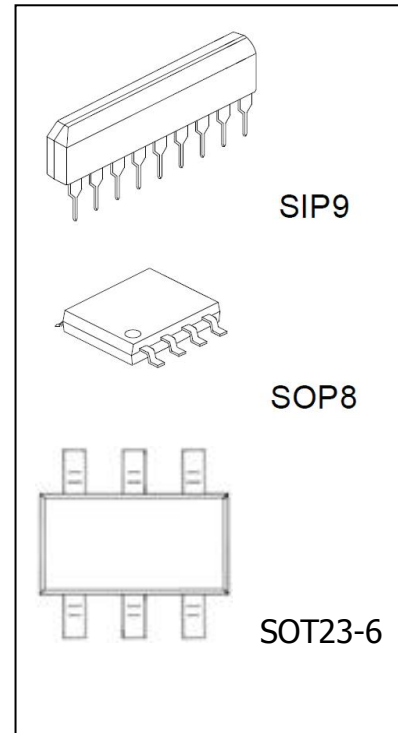
CP6208 是一块单片双向马达驱动电路，它使用TTL电平的逻辑信号就能控制卡式录音机和其它电子设备中的双向马达。

该电路由一个逻辑部分和一个功率输出部分组成。逻辑部分控制马达正、反转向及制动，功率输出部分根据逻辑控制能提供100mA（典型值）电流。

电路采用SIP9、SOP8和SOT23-6等封装形式封装。

主要特点：

- 内设马达驱动功率晶体管（典型100mA）
- 可施加制动，强制马达停止（输入A和B都为高电平）
- 内设保护二极管，吸收冲击电流
- 输入A和B都为低电平时，具有非常小的待机电流
- 工作电源电压范围宽（2.8V~18.0V）
- 用 TTL 逻辑信号直接控制
- PWM 频率可达 50KHz
- 内设大电流冲击保护，大电流冲击时间可达 2S（典型值，VCC=12V）



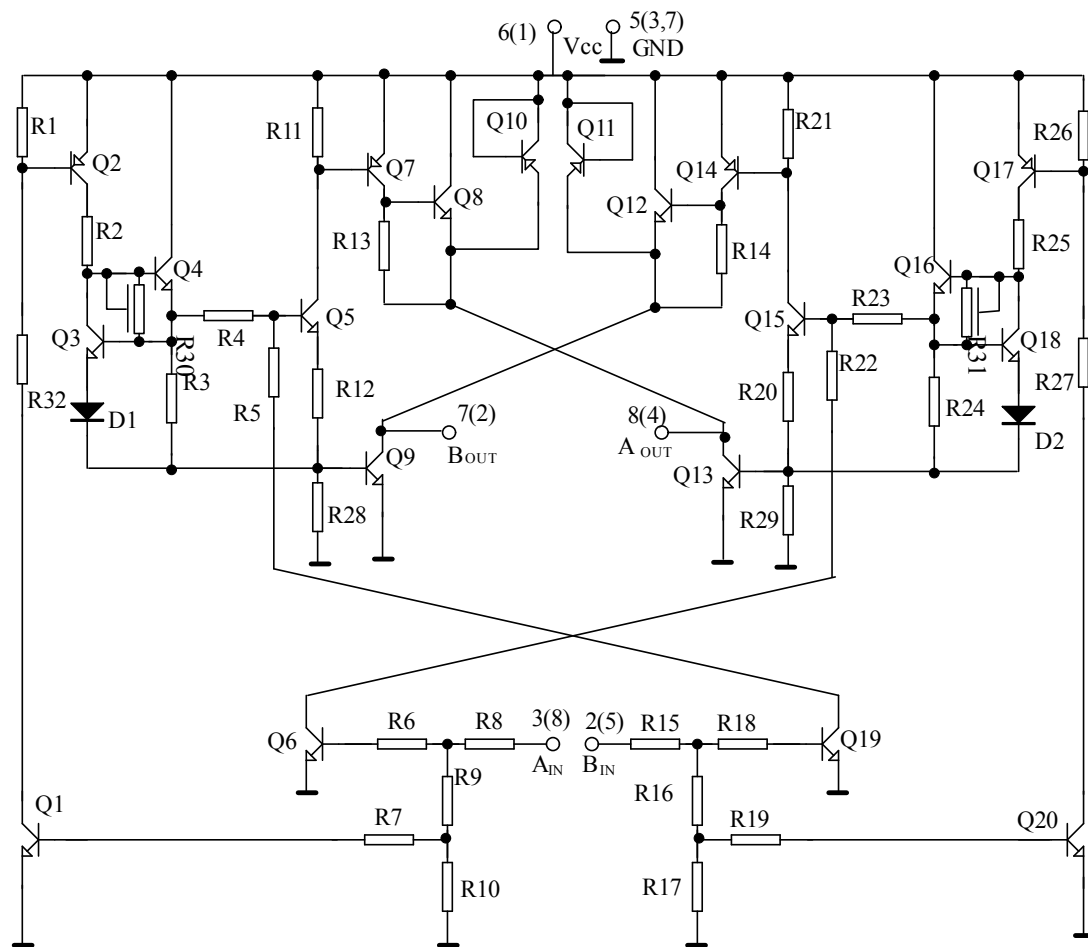
应用：

- 卡式录音机双向马达
- 其它电子设备双向马达

订货信息：

Product Model	Package Type	Marking	Packing	Packing Qty
XBLW CP6208P	SIP-9	CP6208P	Tube	1000Pcs/Box
XBLW CP6208DTR	SOP-8	CP6208	Tape	4000Pcs/Reel
XBLW CP6208TDTR	SOT-23-6	6208	Tape	3000Pcs/Reel

功能框图：

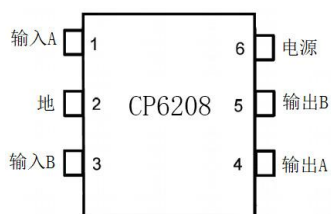


注：括号内的数字为CP6208 SOP8封装的管脚号

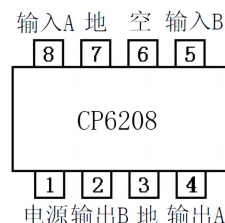
管脚排列图：



SIP9



SOT23-6



SOP8

管脚描述：

管脚号			管脚名称	功能描述
SIP9	SOT23-6	SOP8		
1			NC	空脚
2	3	5	Bin	B 通道输入
3	1	8	Ain	A 通道输入
4		6	NC	空脚
5	2	3、7	GND	地
6	6	1	Vcc	电源
7	5	2	Bout	B 通道输出
8	4	4	Aout	A 通道输出
9			NC	空脚

极限值：（绝对最大额定值，若无其它规定， $T_{amb}=25^{\circ}\text{C}$ ）

参数名称	符号	参数值		单位
		最小	最大	
电源电压	Vcc	-	22	V
最大输出电流	Iout	-	300	mA
功耗	SIP9 (*1)		700	mW
	SOP8 (*2)	PD	450	mW
	SOT23-6 (*3)		220	mW
工作环境温度	Tamb	-20	85	$^{\circ}\text{C}$
贮存温度	Tstg	-55	125	$^{\circ}\text{C}$

注 (*1): 在 25°C 以上使用时，环境温度每升高 1°C ，功耗减少 7mW。

注 (*2): 在 25°C 以上使用时，环境温度每升高 1°C ，功耗减少 4.5mW。

注 (*3): 在 25°C 以上使用时，环境温度每升高 1°C ，功耗减少 2.5mW

推荐工作条件：

参数名称	符号	最小	典型	最大	单位
电源电压	Vcc	2.8		18	V

输入/输出真值表：

A 输入	B 输入	A 输出	B 输出
H	L	H	L
L	H	L	H
H	H	L	L
L	L	开路	开路

注：高电平输入 2.0V 或以上。

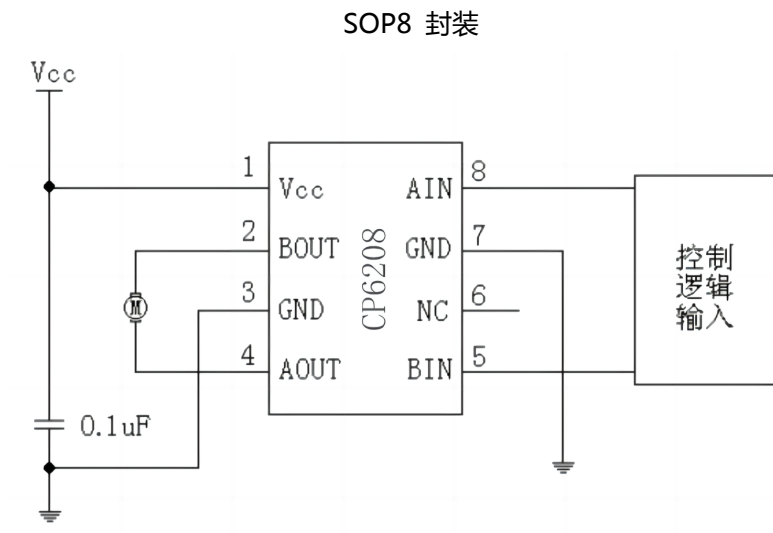
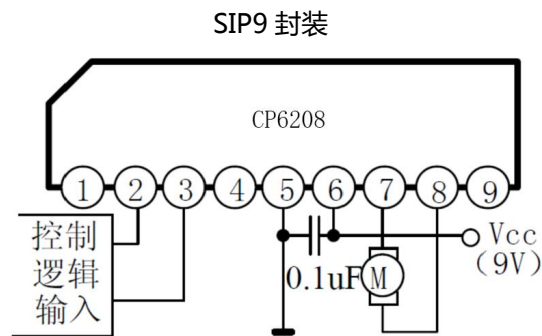
低电平输入 0.8V 或以下。

电特性：（若无其它规定， $V_{CC}=9V$ ， $T_{amb}=25^{\circ}C$ ）

特 性	测试条件	符 号	规 范 值			单 位
			最 小	典 型	最 大	
输出电流		I_o	200	300		mA
输出饱和压降	$I_o=100mA$	VCES		1.0	1.6	V
输入高电平电压		V_{IH}	2.0			V
输入低电平电压		V_{IL}			0.8	V
待机电流	输入 A、B 都为低电平	IST			0.4	mA
输入高电平电流	$V_{IH}=4.5V$	IIH		250	400	μA

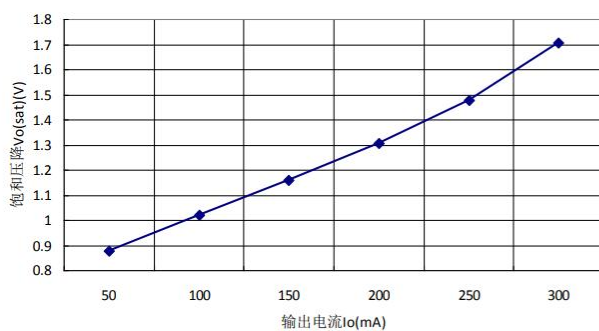
电路内部建有抗冲击保护二极管，该保护二极管至少能吸收 500mA 的冲击电流，该冲击电流脉冲宽度 10ms 和占空比 10%或更小。

典型应用图：

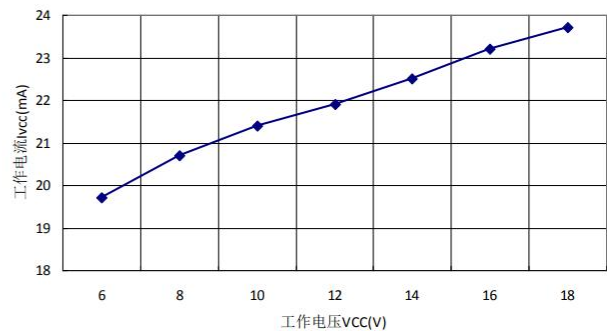


典型参数特性曲线：

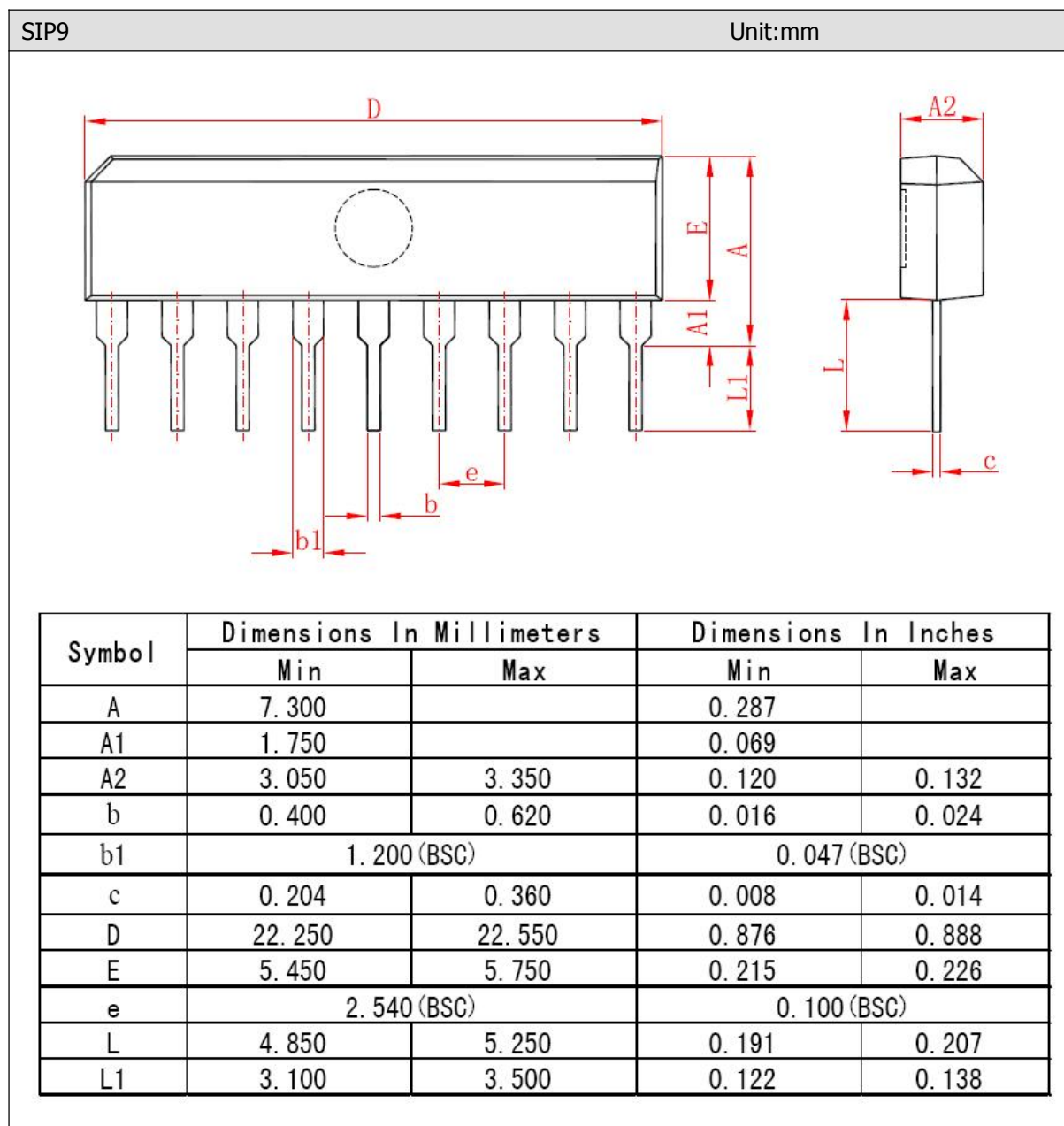
饱和压降vs输出电流



工作电流vs工作电压

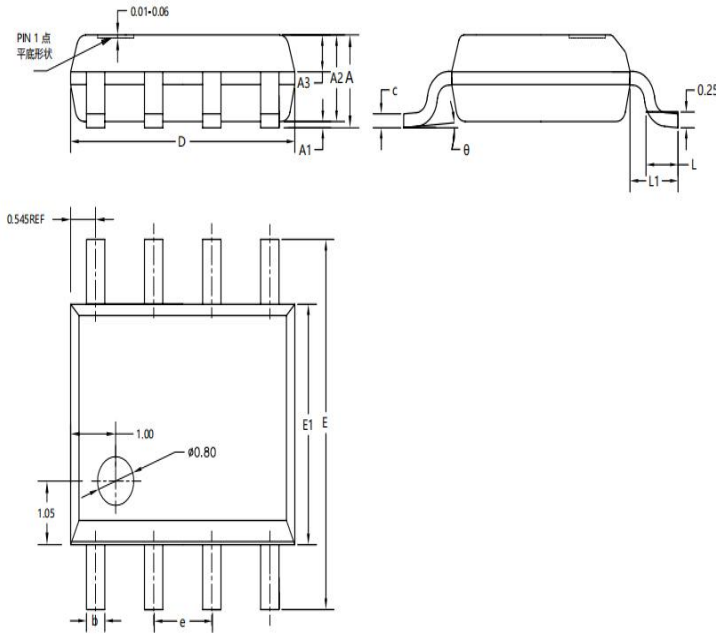


封装外形图：



SOP8

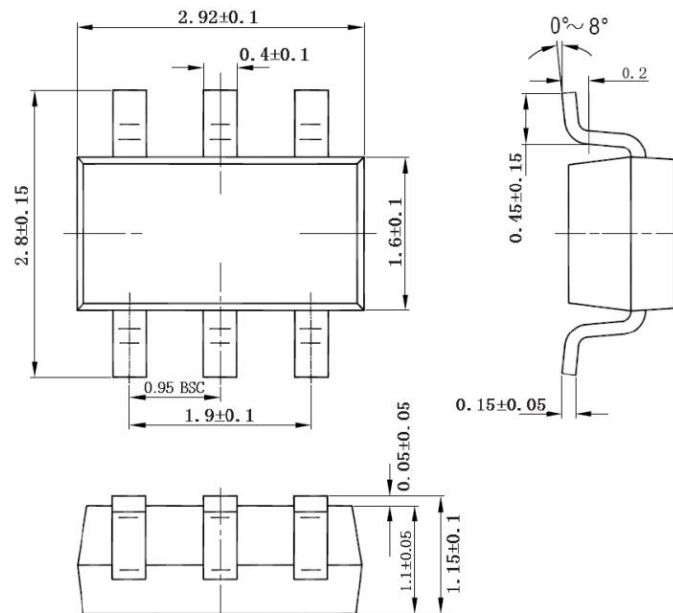
Unit:mm



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	1.55	1.65	1.75
A1	0.10	0.15	0.20
A2	1.35	1.45	1.55
A3	0.60	0.70	0.80
b	0.30	0.40	0.50
c	0.17	0.20	0.25
D	4.80	4.90	5.00
E	5.80	6.00	6.20
E1	3.80	3.90	4.00
e	1.27BSC		
L	0.50	0.60	0.70
L1	1.05REF		
θ	0°	4°	8°

SOT23-6

Unit:mm



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