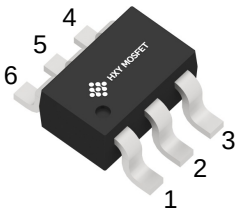
## 概述：

BA6208S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 SOT-23-6L 的封装形式封装。




SOT-23-6L

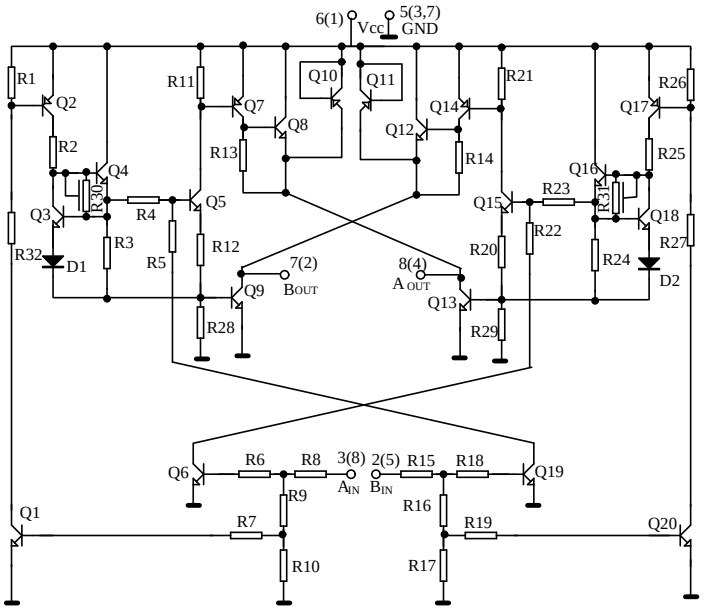
## 主要特点：

- 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(4.5V~18.0V)
- 用 TTL 逻辑信号直接控制

## 应用：

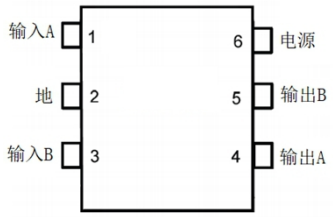
- 卡式录音机双向马达
- 其它电子设备双向马达

## 功能框图：




注：括号内的数字为BA6208S SOP8 封装的管脚号

**管脚排列图：**




SOT-23-6L

**管脚描述：**

| 管脚号<br>SOT-23-6L | 管脚名称 | 功能描述 |
|---|---|---|
| | NC | 空脚 |
| 3 | Bin | B 通道输入 |
| 1 | Ain | A 通道输入 |
| | NC | 空脚 |
| 2 | GND | 地 |
| 6 | Vcc | 电源 |
| 5 | Bout | B 通道输出 |
| 4 | Aout | A 通道输出 |
| | NC | 空脚 |

**极限值：**（绝对最大额定值，若无其它规定，Tamb=25℃）

| 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 | - | 500 | mA |
| 功耗 | $P_D$ | | 220 | mW |
| 工作环境温度 | Tamb | -20 | 60 | ℃ |
| 贮存温度 | Tstg | -55 | 125 | ℃ |

注（*1）：在 25℃以上使用时，环境温度每升高 1℃，功耗减少 7mW。

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

注（*3）：在 25℃以上使用时，环境温度每升高 1℃，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 | 4.5 | | 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，Vcc=9V，Tamb=25℃）

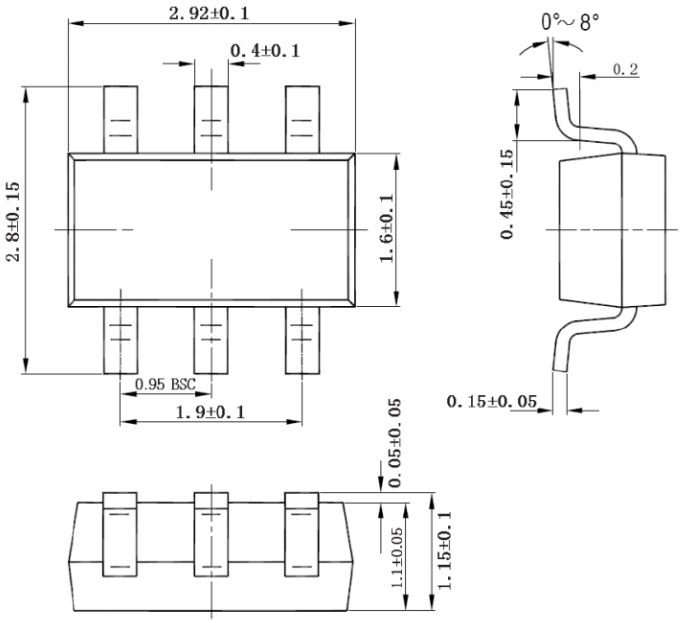
| 特 性 | 测试条件 | 符 号 | 规 范 值 | | | 单 位 |
|---|---|---|---|---|---|---|
| | | | 最 小 | 典 型 | 最 大 | |
| 输出电流 | | Io | 200 | | | mA |
| 输出饱和压降 | Io=100mA | $V_{CES}$ | | 1.0 | 1.6 | V |
| 输入高电平电压 | | $V_{IH}$ | 2.0 | | | V |
| 输入低电平电压 | | $V_{IL}$ | | | 0.8 | V |
| 待机电流 | 输入A、B 都为低电平 | $I_{ST}$ | | | 0.4 | mA |
| 输入高电平电流 | $V_{IH}$=4.5V | $I_{IH}$ | | 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。

封装外形图：

**SOT-23-6L**

Unit:mm



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## HXY MOSFET:

TPSMB28A-VR PESDNC2XD5VBF AZ4836-01L PJSD24CW_R1 HLY323BC1524L PESDSC2FD5VU BV05C-H AZ4007-01H HRCLAMP3371ZCTFT RLSD32A121V LM393DR-HXY HESDSLC3V3D3B HACPDQC5V0-HF PJEC5V0M1FN2 HESD36VD3B HSTS521050B331 TPSMB100CA-VR HSEN3611D3 AQ15C-01FTG ESD5L5.0C-HXY ESD5LM5.0C-HXY 60N06 HSG3D15B3.3MA PESDNC2XD5VBL HPTVSUC3D5VB HCEZ36V,L3F HAZ4007-01H HSEN2411D3 PESDLC2FD3V3BH HSD15C.TCT