说明

L9110S是为控制和驱动电机设计的两通道推挽式功率放大专用集成电路, 将分立电路集成在单片 IC 中,使外围器件简单,整机成本降低的同时可靠性大 大提高。

芯片有两个 TTL/CMOS 兼容电平的输入,具有良好的抗干扰性;两个输出端能直接驱动电机的正反向运动,它具有较大的电流驱动能力,每通道能通过 800mA 的持续电流,峰值电流能力可达 1.5A 同时它具有较低的输出饱和压降。内置的钳位二极管能释放感性负载的反向冲击电流,使它在驱动继电器、直流电机、步进电机或开关功率管的使用上安全可靠。

L9110S被广泛应用于玩具汽车电机驱动、脉冲电磁阀门驱动、步进电机驱动和开关功率管等电路上。

特征

●电源电压范围: 2.5V 至 12V

•持续输出电流 800mA

•最大输出电流达到 1.5A

应用

•玩具

•电子锁

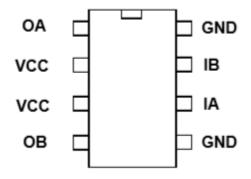
• 阀门驱动

封装信息

种类	封装形式	工作温度(°C)	器件命名	器件打印
L9110S	SOP-8	0°C to +85°C	L9110S	L9110S
				XXXXX

注: XXXXX = 日期编码

引脚排列



引脚功能

名称	管脚	I/O	说明
OA	1	0	输出端 A
VCC	2	ı	电源
VCC	3	ı	电源
ОВ	4	0	输出端 B
GND-	5	-	地线
IA	6	I	输入端 A
IB	7	I	输入端 B
GND	-8	-	地线

逻辑关系

IA	IB	OA	ОВ
Н	L	Н	L
L	Н	L	Н
Н	Н	L	L
L	L	Z	Z



电气最大额定值

特性	数值	单位
电源电压,VCC to GND	15	V
输入电压范围	- 0.3 to 9	V
输入电流范围	10	mA
工作温度范围	0 to 85	C
结温	150	C
储存温度范围	-65 to 150	C

推荐工作条件

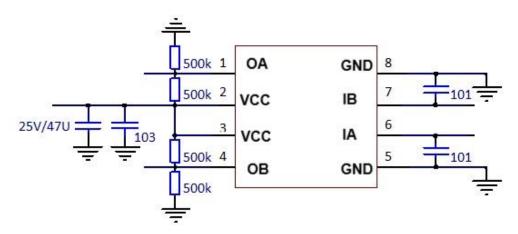
特性	数值	单位
电源电压,VCC to GND	5~9	V
输出电流范围	0 to 0.5	Α
工作温度范围	0 to 85	C

电气特性

除非另有说明,否则 VCC=5V, Ta=25°C

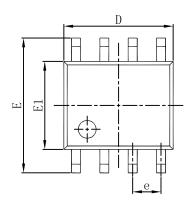
参数	单位	测试条件	最小	典型	最大
Icc1	uA	IA=IB=0		0.1	5
Icc2	mA	IA=5V,IB=0 或 IA=0,IB=5V		20	30
Iin	uA	IA=5V		360	500
Vccmin	V	Iout=100mA		2.5	
V0sat1	V	Iout=500mA		1.05	1.15
V0sat2	V	VCC=9V, Iout=750mA		1.3	1.6
Iout	mA	持续输出电流	750	800	
Imax	A	峰值电流		1.5	
IH	V	输入高电平	1.5		
IL	V	输入低电平			0.6

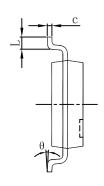
测试电路

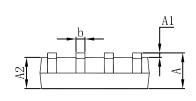


电气最大额定值

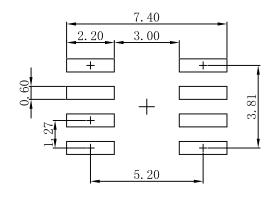
SOP-8







Symbol	Dimensions In	Millimeters	Dimensions In Inches	
Symbol	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	0.007	0.010
D	4.800	5.000	0.189	0. 197
e	1.270 (BSC)		0.050	(BSC)
E	5.800	6. 200	0. 228	0. 244
E1	3.800	4.000	0.150	0. 157
L	0.400	1.270	0.016	0.050
А	٥°	8°	0.0	8°



- Note:
 1.Controlling dimension:in millimeters.
 2.General tolerance:±0.05mm.
 3.The pad layout is for reference purposes only.



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