

Features:

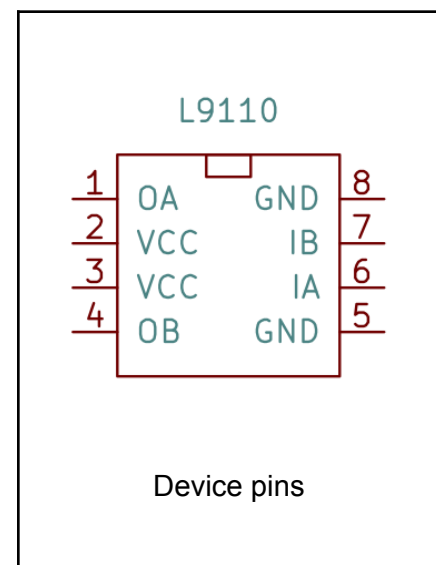
- Low quiescent current
- 2.5 - 12 VDC supply voltage range
- 800 mA continuous current, 1.5 - 2 A peak current
- TTL/CMOS input signal compatible
- Built in clamp diodes on output to prevent inductive kickback
- 0 - 80 °C Operating temperature
- Available in DIP8 and SOP8 Packages

Description:

The L9110 is a two-channel push-pull amplifier circuit integrated into a monolithic IC with the required peripheral devices, reducing costs and improving the reliability. The two control inputs are TTL/CMOS compatible with high impedance. The two output terminals can directly drive motors in both forwards and reverse directions at up to 800 mA (1.5 - 2 A peak). The L9110 has a low output saturation voltage, built-in clamping diodes to protect against voltage spiking from the switching of inductive loads. The L9110 is widely used in toy car motor drives, stepper motor drives and switching amplifier circuits.

Pin Description:

Pin Number	Symbol	Function
1	OA	Output A
2	VCC	Supply Voltage
3	VCC	Supply Voltage
4	OB	Output B
5	GND	Ground
6	IA	Input A
7	IB	Input B
8	GND	Ground



Test Conditions:

V_{CC} = 9 VDC, I_{out} = 750 mA

Symbol	Parameters	Minimum	Typical	Maximum	Unit
VH _{out}	Output High	7.50	7.60	7.70	V
VL _{out}	Output Low	0.35	0.45	0.55	V
VH _{in}	Input High	2.5	5.0	9.0	V
VL _{in}	Input Low	0	0.5	0.7	V

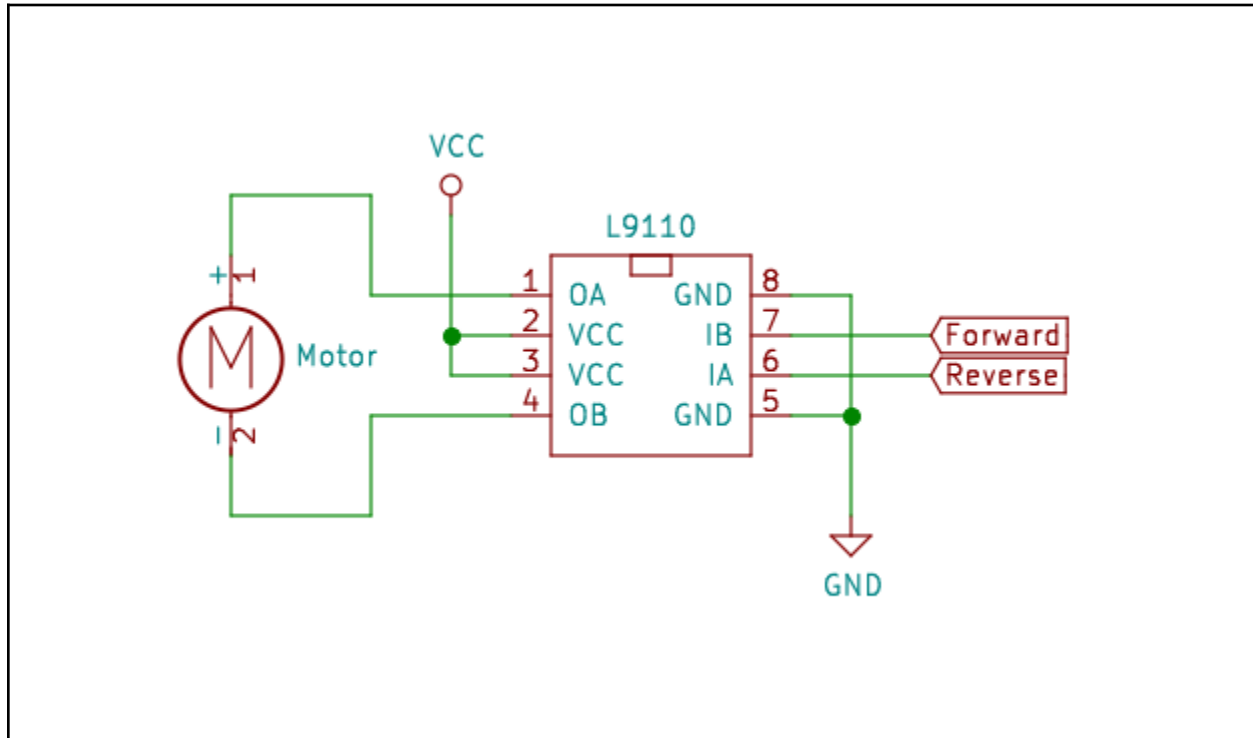
Electrical Characteristics:

Symbol	Parameters	Minimum	Typical	Maximum	Unit
V _{CC}	Supply voltage	2.5	6.0	12.0	V
I _{dd}	Quiescent current	-	0	2	μA
I _{in}	Operating current	200	350	500	μA
I _C	Continuous current	750	800	850	mA
I _{max}	Peak current	-	1500	2000	mA

Logical Relationship

IA	IB	OA	OB
L	L	L	L
L	H	L	H
H	L	H	L
H	H	L	L

Application Circuit Diagram



Important Considerations

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