Motor Control Driver Chip L9110

#### Features:

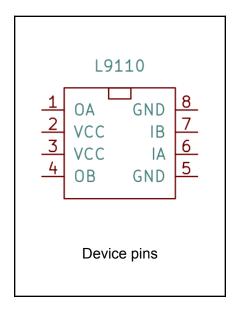
- Low quiescent current
- 2.5 12 VDC supply voltage range
- 800 mA continuous current, 1.5 2 A peak current
- TTL/CMOS input signal compatible
- Built in clamp diodes on output to prevent inductive kickback
- 0 80 °C Operating temperature
- Available in DIP8 and SOP8 Packages

#### 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	ОВ	Output B
5	GND	Ground
6	IA	Input A
7	IB	Input B
8	GND	Ground



### **Test Conditions:**

 $V_{\rm CC}$  = 9 VDC,  $I_{\rm out}$  = 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 <sub>CC</sub>	Supply voltage	2.5	6.0	12.0	V
l <sub>dd</sub>	Quiescent current	-	0	2	μΑ
<b>I</b> <sub>in</sub>	Operating current	200	350	500	μΑ
$I_{C}$	Continuous current	750	800	850	mA
I <sub>max</sub>	Peak current	-	1500	2000	mA

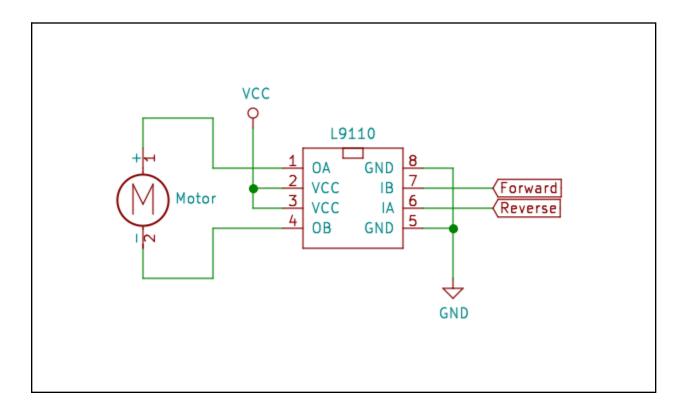
# Logical Relationship

IA	IB	OA	ОВ
L	L	L	L
L	Н	L	Н
Н	L	н	L
Н	Н	L	L

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### **Application Circuit Diagram**



## Important Considerations

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