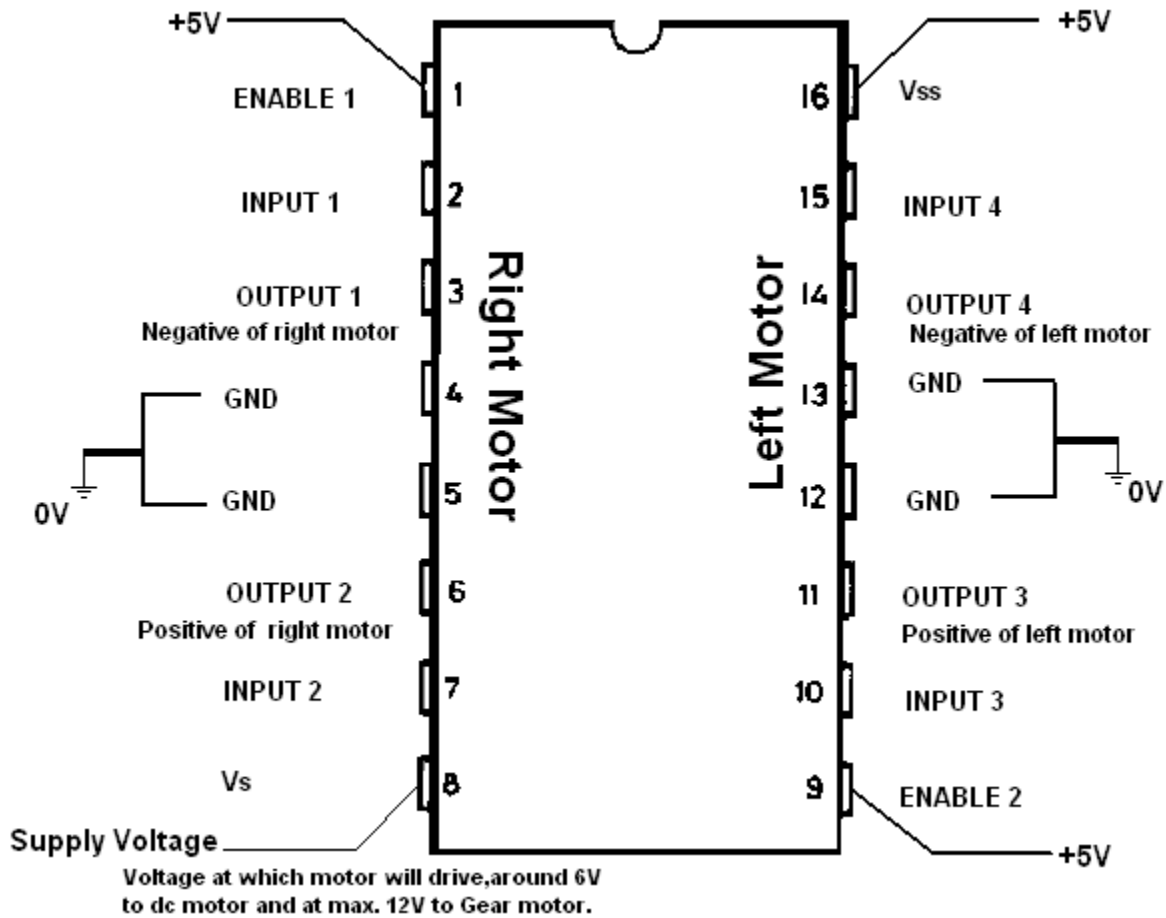


## Pin Configuration of L293D:



## Electrical Characteristic:

Symbols	Parameter	Testing Condition	Min.	Max.	Units
Vss	Logic Supply Voltage Pin 16		4.5	36	V
Vs	Supply Voltage Pin 8		Vss	36	V
Ven L	Enable Low Voltage Pin 1 and 9		-0.3	1.5	V
Ven H	Enable High Voltage Pin 1 and 9	$V_{ss} \leq 7$	2.3	$V_{ss}$	V
		$V_{ss} > 7$	2.3	7	
VIL	Input Low Voltage Pin 2, 7, 10 and 15		-0.3	1.5	V
VIH	Input High Voltage Pin 2, 7, 10 and 15	$V_{ss} \leq 7$	2.3	$V_{ss}$	V
		$V_{ss} > 7$	2.3	7	

Note:



INPUT(Pins 2,7,10,15)	ENABLE(Ven=5V)	OUTPUT (Pins 3,6,11,14) (Vs=6V)
1.2V	4.6V	0V
3.8V	4.9V	6V
4.6V	0.8V	High output impedance
0.5V	0.5V	High output impedance
4.9V	2.9V	?????
0.9V	1.1V	?????
1.3V	4.1V	?????

Refer Electrical

### Characteristics

- OUTPUT 1 --- Negative Terminal of Right Motor
- OUTPUT 2 --- Positive Terminal of Right Motor
- OUTPUT 3 --- Positive Terminal of Left Motor
- OUTPUT 4 --- Negative Terminal of Left Motor

Lets check the outputs for some inputs:

<u>Input</u> <u>1</u>	<u>Input</u> <u>2</u>	<u>Input</u> <u>3</u>	<u>Input</u> <u>4</u>	<u>Output</u> <u>1</u>	<u>Output</u> <u>2</u>	<u>Output</u> <u>3</u>	<u>Output</u> <u>4</u>	<u>Motors Output</u>		<u>Movement</u>
								<u>Right</u>	<u>Left</u>	
Low	High	High	Low	0	Vss	Vss	0	Straight	Straight	Straight
Low	High	Low	Low	0	Vss	0	0	Straight		Left Turn
Low	Low	High	Low	0	0	Vss	0	Stop		Right Turn
Low	High	Low	High	0	Vss	0	Vss			Sharp Left
High	Low	High	Low	Vss	0	Vss	0			Sharp Right
High	Low	Low	High	Vss	0	0	Vss			Backward