



Circuit Description

TA6586 is a DC Bidirectional motor driving circuit, it applies to other types of motor-driven toys, motor-driven automatic valve, electromagnetic locks drives. It has two input terminals of the logic used to control the motor forward, reverse and brake. The circuit has a good resistance, a slight standby current, low output resistance, at the same time, he also has a built-in diode reverse impact releasable inductive load current.

Feature

- I Slight standby current is less than 2uA .
- I Wide operating voltage range 3.0V ~ 14V ..
- I Emergency stop function
- I Overheating protection function
- I There are over-current and short circuit protection features embedded flow
- I Package outline is: DIP8

Pin Function

Pin	name	Features
1	BI	Back input
2	FI	Forward input
3	GND	Ground
4	Vcc	power supply
5, 6	FO	Forward output
7, 8	BO	Back Output

Input truth table

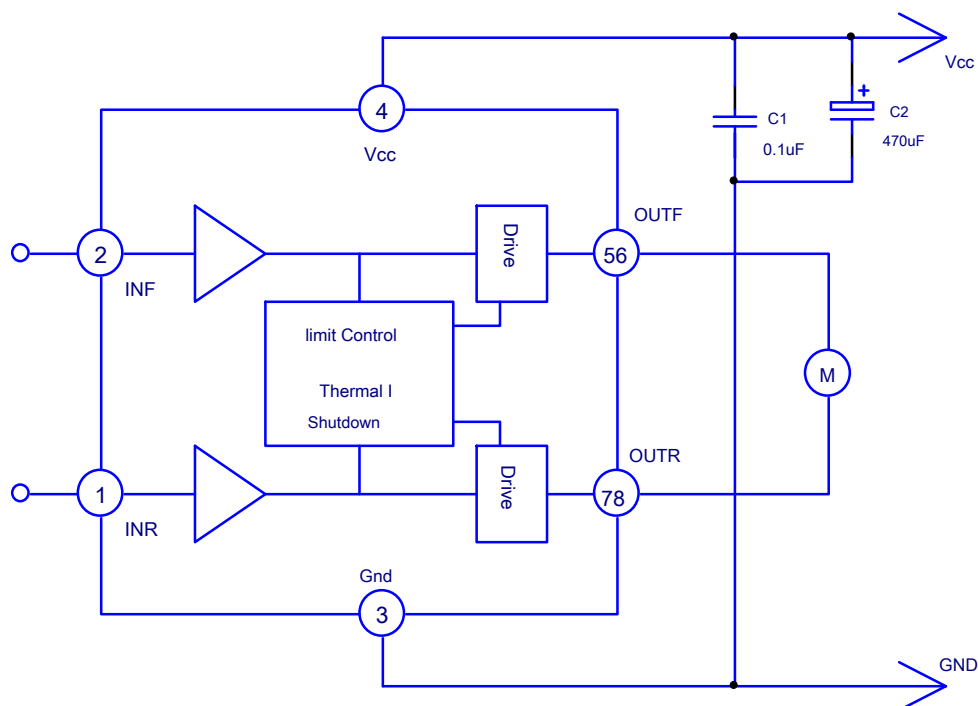
2 foot Forward input	1 foot Back input	5,6 Output foot forward	7,8 Back foot output
H	L	H	L
L	H	L	H
H	H	L	L
L	L	Open	Open

Limit

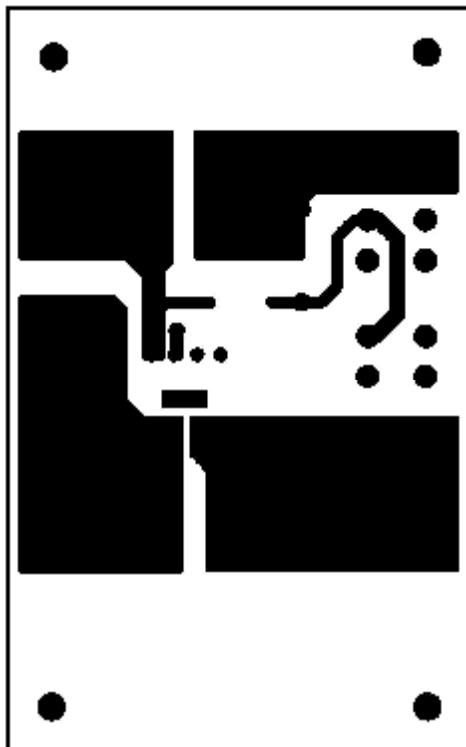
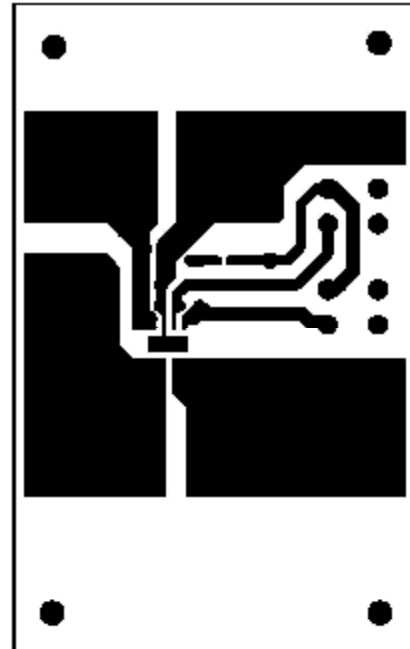
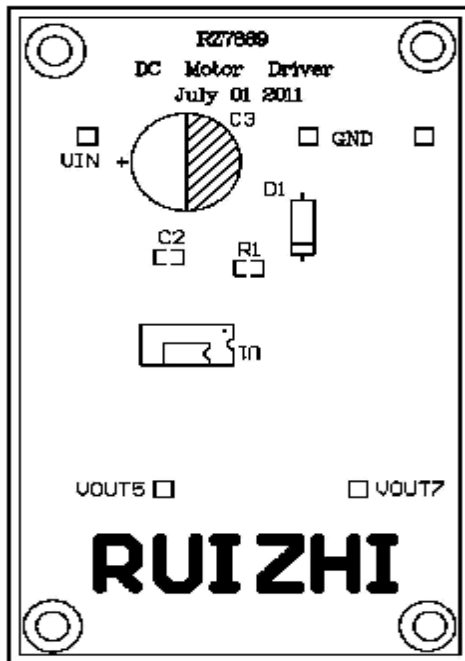
parameter	symbol	Numerical	unit
voltage	Vcc	15	V
Output current	Iout	9	A
Operating temperature	Top	--25 + 85	°C
storage temperature	Tstg	- 55 + 150	°C

**Electrical characteristics (In addition to special Say Ming outside: Vc c = 6V , Ta = 25 °C)**

parameter	symbol	condition	Minimum T	Typical Maximum	Units	
Operating Voltage	V _{OPR}		3.0	---14		V
stand-by current	I _s	V _{CC} = 9V V _i = 0			2	uA
Quiescent Current	I _{CC}	V _{CC} = 6V V _i = 3V Open load	2	4	7	mA
Output high	V _H _{OUT}	V _{CC} = 6V I _o = 3A	5.5	5.7	5.9 V	
Output low	V _L _{OUT}	V _{CC} = 6V I _o = 3A	0.05	0.12	0.3 V	
Input High	V _{iH}		2.2	3.5 6		V
Input low	V _{iL}			0.5	0.7 V	
Input Current(2V)	I _i	V _{CC} = 6V V _i = 2V		70	100	uA
Input Current(3V)	I _i	V _{CC} = 6V V _i = 3V		100	150	uA
Output current	I _{OUT}	DIP8 Package, 5,6,7,8 To cloth outer leg <u>Cooling copper (PCB Copper plate)</u>		5	7	A
Overheat protection temperature	T _{OTp}			130		°C

Application line

Application testing model diagram



PACKAGE OUTLINE

Package Type DIP8

