

Description

TA6586 is a monolithic IC designed for driving bi-directional DC motor. It has two pins of logic inputs for controlling the direction, forward and backward. The circuit feature good anti-interference performance, small standby current and low output saturation pressure drop. It has a built-in clamp diode to reverse the impact of the release of inductive load current, making it in the drive relays, DC motors, stepper motors or control the use of switching power safe and reliable. TA6586 is suitable for toy vehicles, remote-controlled aircraft motor drive, automatic valve motor, electromagnetic lock drive, precision instruments and other circuits.

Features

- Low stand-by current: ≤2uA
- Wide supply voltage range 3.0V~14V
- Built-in Brake Function
- Thermal Shutdown protection
- Over Current Limit and Short Circuit Protect Function
- DIP8 Pb-Free package.

Pin Function

Pin NO	Name	Function		
1	BI	Backward input		
2	FI	Forward input		
3	GND	Ground		
4	Vcc	Vcc		
5, 6	FO	Forward output		
7, 8	ВО	Backward output		

Input Truth Table

2pin Finput	1pin Binput	5,6pin Foutput	7,8pin Boutput
Н	L	Н	L
L	Н	L	Н
Н	Н	L	L
L	L	Open	Open

Absolute Maximum Rating

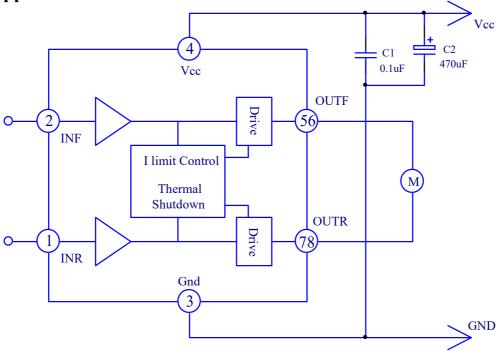
Parameter	Symbol	Rating	Unit
Maximum supply voltage	Vcc	15	V
Output current	Iout	9	A
Operating Temperature	Тор	-25~+85	$^{\circ}$
Storage temperature	Tstg	-55~+150	$^{\circ}$

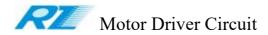


Electrical Characteristics (Vcc=6V,Ta=25°C, unless otherwise specified)

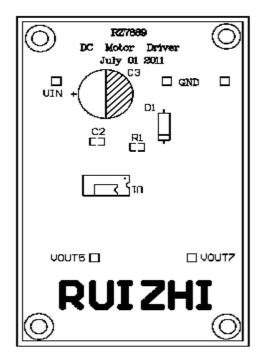
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Parameter	Symbol	Cond	lition	Min	Тур	Max	Unit	
Operating Voltage	V_{OPR}			3.0	-	14	V	
Stand-by Current	Is	Vcc = 9V	Vi = 0			2	uA	
No-load Operating	Icc	Vcc = 6V	V1 = 3V	2	4	7	mA	
Current		Open load						
High Output Voltage	VH _{OUT}	Vcc = 6V	Io =3A	5.5	5.7	5.9	٧	
Low Output Voltage	VL _{OUT}	Vcc = 6V	Io = 3A	0.05	0.12	0.3	٧	
High Input Voltage	ViH			2.2	3.5	6	٧	
Low Input Voltage	ViL				0.5	0.7	٧	
Input Current (2V)	li	Vcc = 6V	Vi = 2V		70	100	uA	
Input Current (3V)	li	Vcc = 6V	Vi = 3V		100	150	uA	
Continuous Output	lout	Around of the r			5	7	Α	
current		dissipation	auxiliary licat					
Thermal shutdown	Totp				130		°C	
temperature	·							

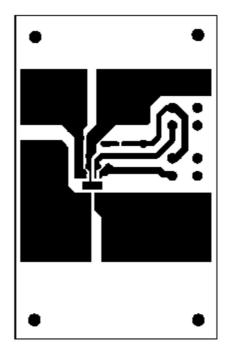
Application circuit

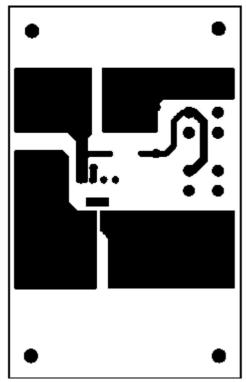




Test PCB Board









Package Type DIP8

