

1.0A, 4.0-20.0V H-Bridge Driver

Description

The SA8330 is one channel H-Bridge driver IC, it provides integrated motor-driver solution for toys, robotics, consumer products and other low voltage or battery-powered motion control applications.

The SA8330 maximum operational voltage is 20.0V. It can supply up to 1.0A of output continuous current and 2.0A of output peak current. There is internal shutdown function for over-temperature protection and over-current protection ($I_{OC} = 2.6 \text{ A}$).

Package material is Pb-Free Product & RoHS compliant for the purpose of environmental protection and for sustainable development of the earth.

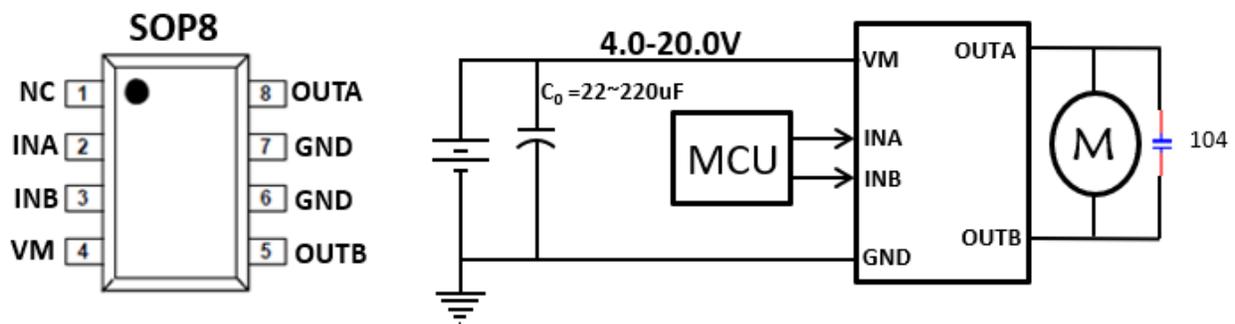
Features

- Operation voltage up to 20.0V
- Continuous current up to 1.0A
- Peak current up to 2.0A
- $R_{DS(on)}$: 750-m Ω (HS + LS)
- Support PWM control
- Over current protection
- Over temperature protection
- UVLO protection
- Low standby current
- Low quiescent current
- SOP8 package

Application

- Robotics (R/C servo, Sweeping robot)
- Toys (R/C car, R/C aircraft)
- Any relevant DC motor applications.

SA8330 Package & Simplified Application



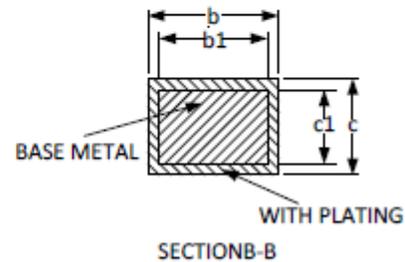
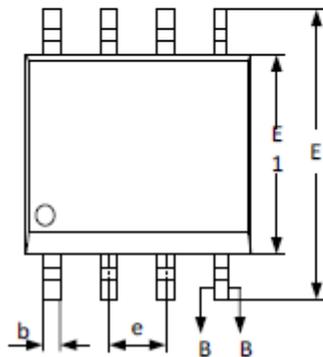
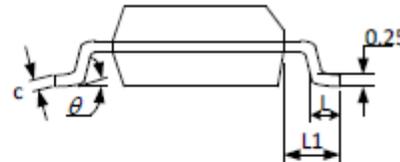
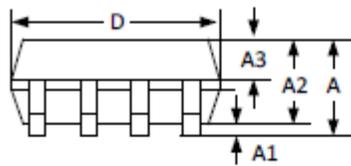
Device Information

Part No.	Package	Quantity	Operation Temp.
SA8330	SOP8	4000	-40~85° C

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Package

SOP8



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	--	--	1.77
A1	0.08	0.18	0.28
A2	1.20	1.40	1.60
A3	0.55	0.65	0.75
b	0.39	--	0.48
b1	0.38	0.41	0.43
c	0.21	--	0.26
c1	0.19	0.20	0.21
D	4.70	4.90	5.10
E	5.80	6.00	6.20
E1	3.70	3.90	4.10
e	1.27BSC		
L	0.50	0.65	0.80
L1	1.05BSC		
θ	0	--	8°

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