

2.5A, 3.0-15.0V H-Bridge Driver

Description

The SA8331 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 SA8331 maximum operational voltage is 15.0V. It can supply up to 2.5A of output continuous current and 5.0A of output peak current. There is internal shutdown function for over-temperature protection and over-current protection $(I_{OCP} = 5.0 \text{ A})$.

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

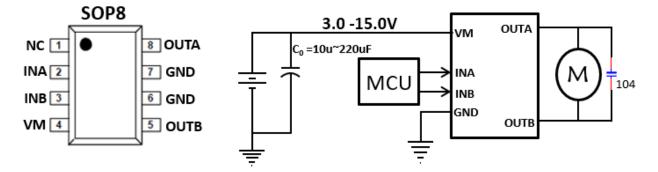
Features

- Operation voltage up to 15.0V
- Continuous current output up to 2.5A
- Peak current up to 5.0Å
- R_{DSON}: 320mΩ (HS+LS)
- Low standby current (0.1uA@6.0V)
- Low quiescent current
- Support PWM control
- Over current protection
- Over temperature protection
- UVLO protection
- SOP8 package

Application

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

SA8331 Package & Simplified Application



Device Information

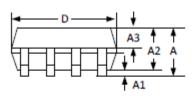
Part No.	Package	Quantity	Operation Temp.
SA8331	SOP8	4000	-40~85 °C

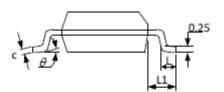


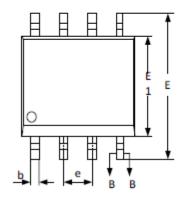
SA8331

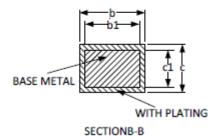
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Package SOP8









SYMBOL	MILLIMETER			
	MIN	NOM	MAX	
Α			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	
с	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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