

3.5A, 3.0-25.0V H-Bridge Driver

Description

The SA8345 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 SA8345 maximum operational voltage is 25.0V. It can supply up to 3.5A of output continuous current and 6.0A of output peak current. There is internal shutdown function for over-temperature protection and over-current protection ($I_{OCP} = 6.0\text{ A}$).

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

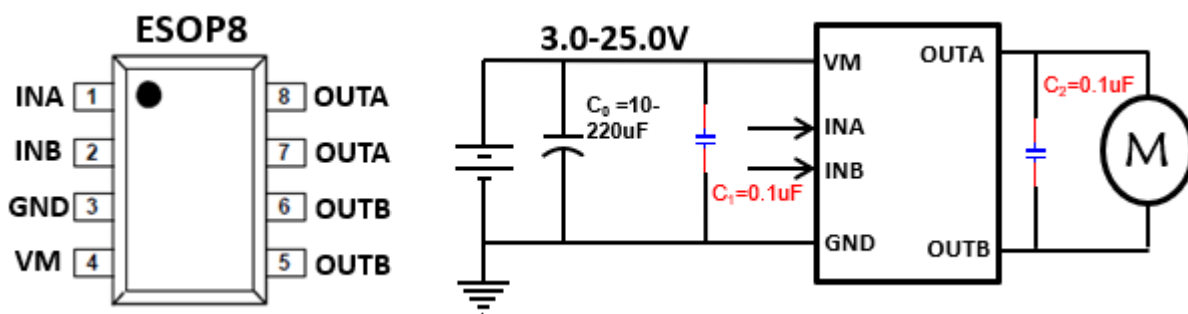
Features

- Operation voltage up to 25.0V
- Continuous current output up to 3.5A
- Peak current up to 6.0A
- $R_{DS(on)}$: 180-m Ω (HS + LS)
- Support PWM control
- Over current protection
- Over temperature protection
- UVLO protection
- Low standby current
- Low quiescent current
- ESOP8 package

Application

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

SA8345 Package & Simplified Application

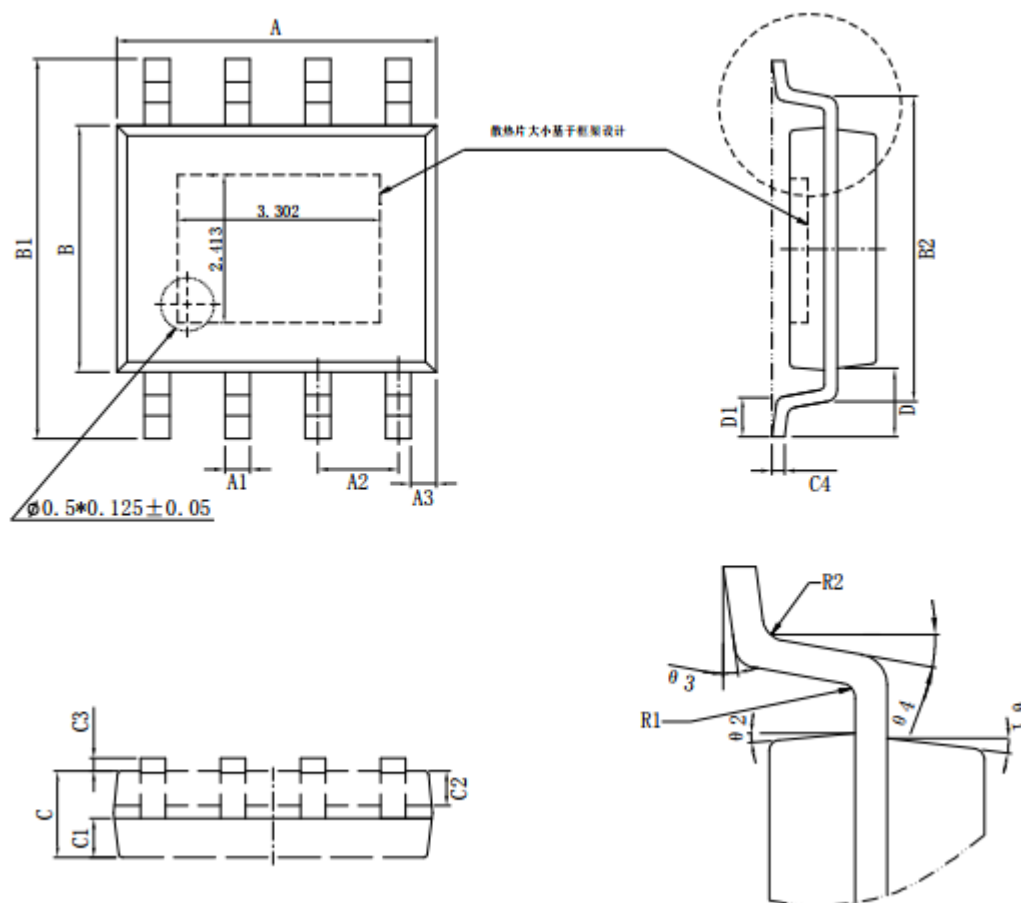


Device Information

Part No.	Package	Quantity	Operation Temp.
SA8345	ESOP8	4000	-40~85 °C

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Package ESOP8



尺寸 标注	最小(mm)	最大(mm)	尺寸 标注	最小(mm)	最大(mm)
A	4.80	5.00	C3	0.00	0.09
A1	0.356	0.456	C4	0.203	0.233
A2	1.27TYP		D	1.05TYP	
A3	0.345TYP		D1	0.40	0.80
B	3.80	4.00	R1	0.20TYP	
B1	5.80	6.20	R2	0.20TYP	
B2	5.00TYP		θ1	17° TYP4	
C	1.30	1.60	θ2	13° TYP4	
C1	0.55	0.65	θ3	0° ~ 8°	
C2	0.55	0.65	θ4	4° ~ 12°	

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