

## 1.5A, 3.0-25.0V H-Bridge Driver

### Description

The SA8342 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 SA8342 maximum operational voltage is 25.0V. It can supply up to 1.5A of output continuous current and 3.5A of output peak current. There is internal shutdown function for over-temperature protection and over-current protection ( $I_{OCP} = 4.5\text{ A}$ ).

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

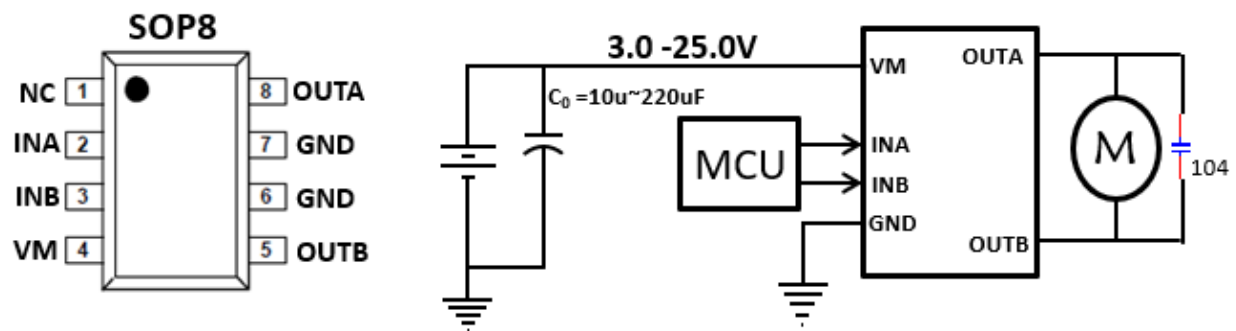
### Features

- Operation voltage up to 25.0V
- Continuous current output up to 1.5A
- Peak current up to 3.5A
- $R_{DS(on)}$ : 350-m $\Omega$  (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.

## SA8342 Package & Simplified Application



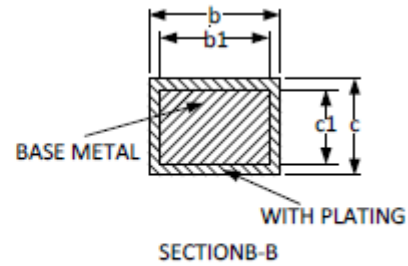
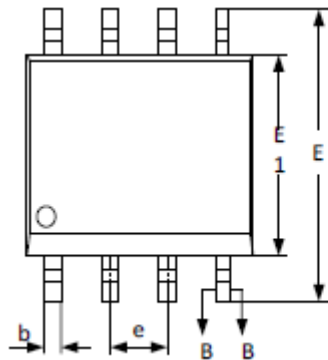
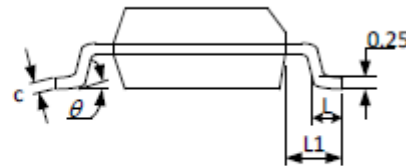
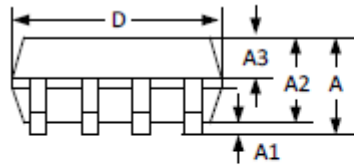
### Device Information

| Part No. | Package | Quantity | Operation Temp. |
|----------|---------|----------|-----------------|
| SA8342   | 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°   |

**1.5A, 3.0-25.0V H-Bridge Driver****IMPORTANT NOTICE**

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