

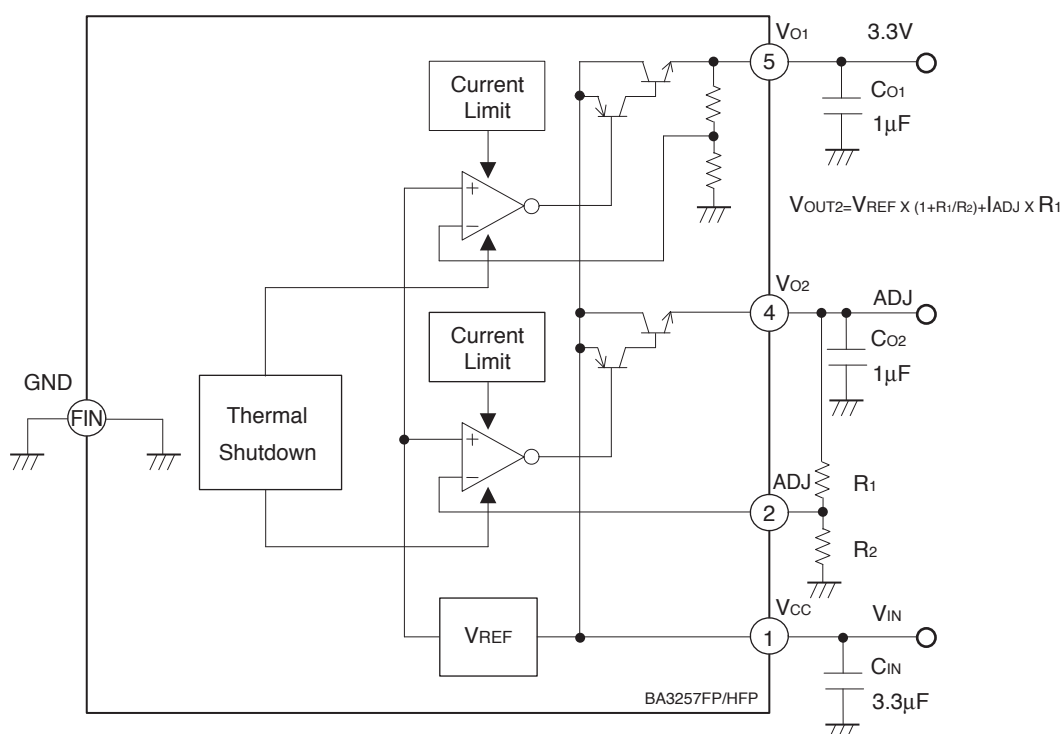
**BA3257FP/HFP**

| Parameter            | Symbol          | Min. | Typ. | Max. | Unit |
|----------------------|-----------------|------|------|------|------|
| Power supply voltage | V <sub>CC</sub> | 4.75 | –    | 14.0 | V    |

● Electrical characteristics (Unless otherwise noted; Ta=25°C, Vcc=5V, R1=R2=5kΩ)

| Parameter           | Symbol                | Min.  | Typ.   | Max.   | Unit | Conditions                                        |
|---------------------|-----------------------|-------|--------|--------|------|---------------------------------------------------|
| Circuit current     | I <sub>b</sub>        | –     | 3□     | 5□     | mA   | I <sub>o1</sub> =0mA, I <sub>o2</sub> =0mA        |
| Line regulation 1,2 | ΔV <sub>LINE1,2</sub> | –     | 5□     | 15□    | mV   | V <sub>cc</sub> =4.75 → 14V, I <sub>o1</sub> =5mA |
| Load regulation 1,2 | ΔV <sub>LOAD1,2</sub> | –     | 5□     | 20□    | mV   | I <sub>o2</sub> =5mA → 1A                         |
| [3.3V output]       |                       |       |        |        |      |                                                   |
| Output voltage      | V <sub>o1</sub>       | 3.234 | 3.300□ | 3.366  | V    | I <sub>o1</sub> =50mA                             |
| Dropout voltage     | ΔV <sub>D1</sub>      | –     | 1.1□   | 1.3    | V    | I <sub>o1</sub> =1A                               |
| Output current      | I <sub>o1</sub>       | 1.0   | –□     | –      | A    |                                                   |
| [Variable output]   |                       |       |        |        |      |                                                   |
| Reference voltage   | V <sub>ref</sub>      | 1.225 | 1.250  | 1.275□ | V    | I <sub>o2</sub> =50mA                             |
| Dropout voltage     | ΔV <sub>D2</sub>      | –     | 1.1□   | 1.3□   | V    | I <sub>o2</sub> =1A, R1=8.2kΩ, R2=5kΩ             |
| Output current      | I <sub>o2</sub>       | 1.0   | –      | –      | A    |                                                   |

● Application Circuit



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