

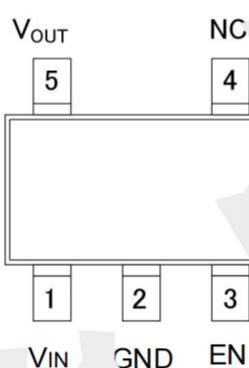
Features

- 70 μ A Current at no Load
- $\pm 2\%$ Output Accuracy
- 500mA Output Current
- Current Limit Protection
- Vout: 3.3V

Applications

- Industrial Controls
- Home Automation
- Modules (Wireless, Camera, etc.)
- Portable, Battery Powered Equipment

PIN CONFIGURATION



Marking: 4A2D

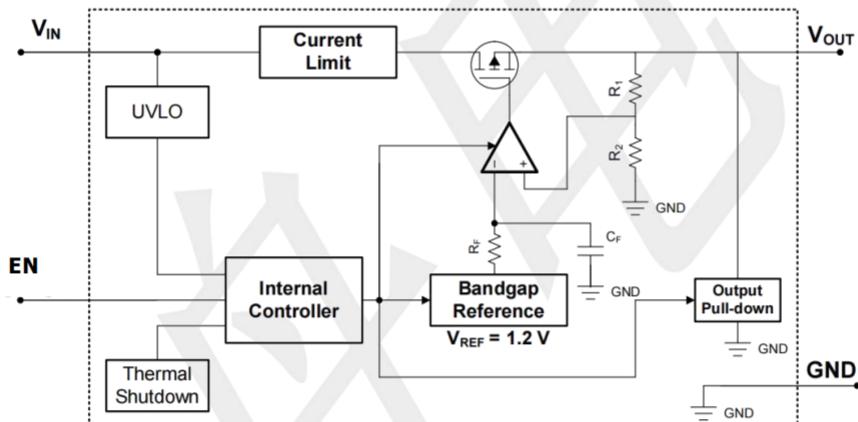
| Pin Number | Pin Name | Pin Function |
|------------|----------|-------------------------|
| SOT23-5 | | |
| 1 | VIN | Input of Supply Voltage |
| 2 | GND | Ground |
| 3 | EN | Enable Control Input |
| 4 | NC | No Internal Connection |
| 5 | VOUT | Output of the Regulator |

Absolute Maximum Ratings

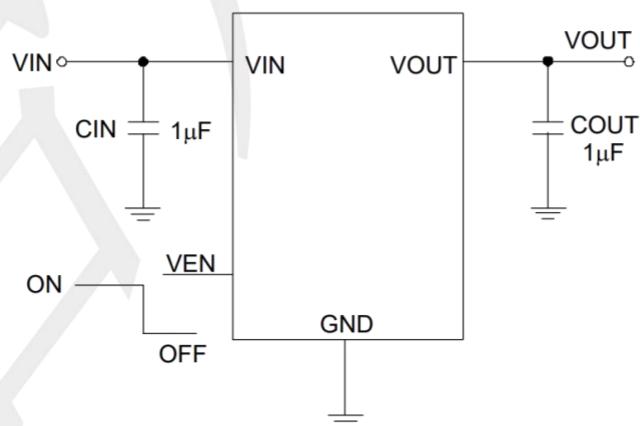
over operating free-air temperature range (unless otherwise noted)

| | | MIN | MAX | UNIT |
|-------------|-----------------------------------|--------------------|------|------|
| VIN | Continuous input voltage range | -0.3 | 6.0 | |
| VOUT | Output voltage range | -0.3 | 6.0 | V |
| EN | EN pin voltage range | -0.3 | 6.0 | |
| IOUT | Output pin current | Internally limited | | mA |
| Temperature | Operating Temperature Range ,Topr | -40 | +85 | |
| | Storage, Tstg | -40 | +125 | °C |

BLOCK DIAGRAM



Typical Application Circuit



Electrical Characteristics

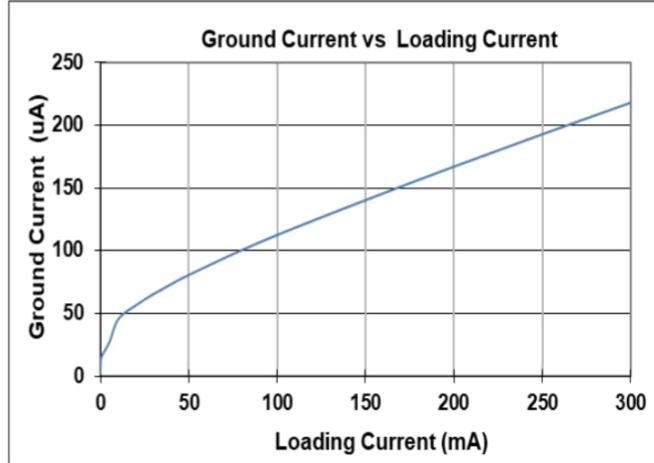
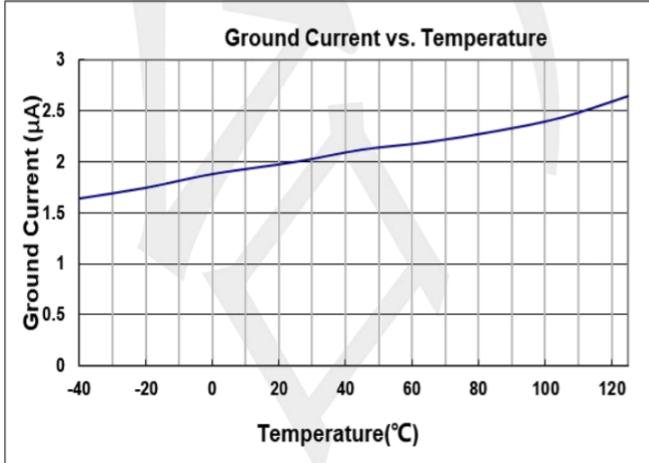
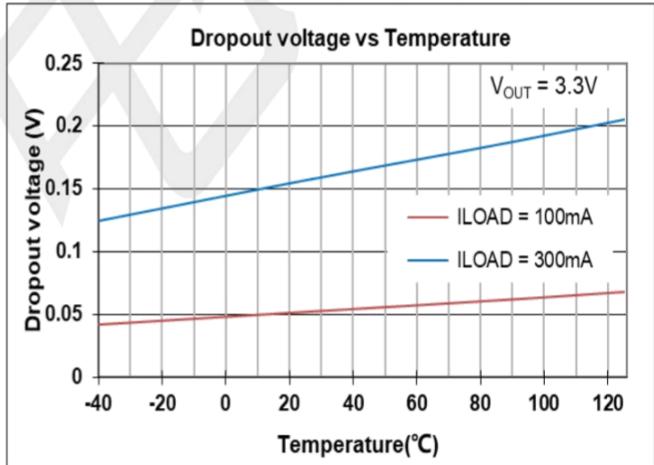
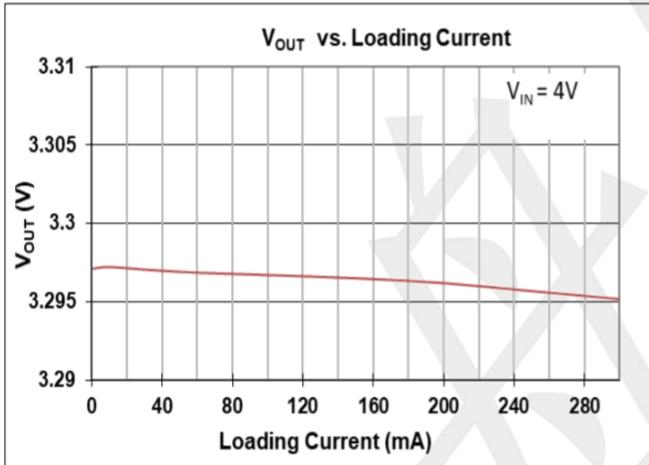
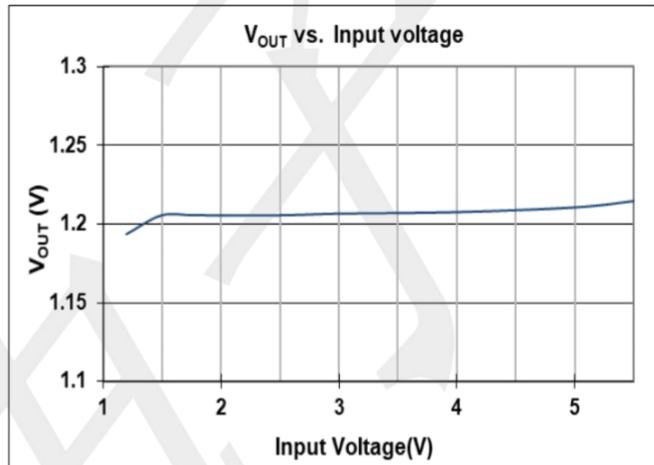
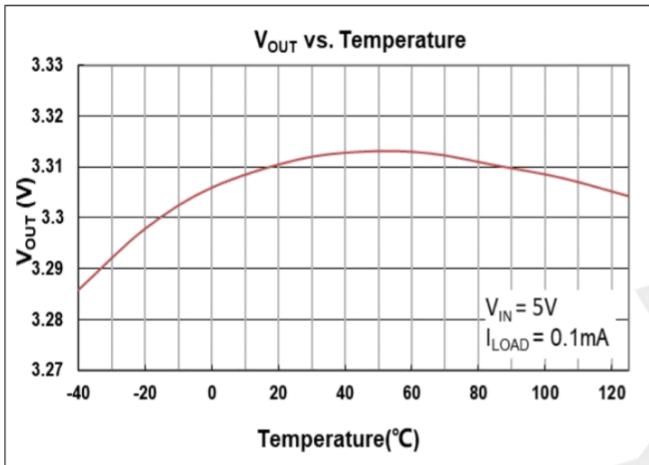
(VIN=15V, VEN=5V, TA=25°C, unless otherwise specified)

| PARAMETER | SYMBOL | TEST Conditions | MIN | TYP | MAX | UNIT |
|--|--|---|-----|------|-----|------|
| Supply Voltage | VIN | | 1.7 | -- | 5.5 | V |
| Output current | IOUT | | 500 | -- | -- | mA |
| DC Output Voltage Accuracy | | IOUT = 1mA | -2 | -- | 2 | % |
| Dropout Voltage (VIN-VOUT) | IOUT = 300mA | VOUT = 3.3V | -- | 200 | -- | mV |
| Ground Current (IOUT = 0mA) | IQ | VOUT = 3.3V | -- | 70 | -- | uA |
| Shutdown Ground Current | ISD | VEN = 0V, | -- | 0.01 | 1 | |
| VOUT Shutdown Leakage Current | ILEAK | VOUT = 0V | -- | 0.01 | 1 | |
| Enable Threshold Voltage | VIH | EN Rising | 1.3 | -- | -- | V |
| | VIL | EN Falling | -- | -- | 0.3 | |
| EN Input Current | IEN | VEN = 5V | -- | 10 | 100 | nA |
| Line Regulation | ΔLINE | IOUT = 1mA, 2≤VIN≤6V | -- | 0.3 | -- | % |
| Load Regulation | ΔLOAD | 10mA≤ IOUT ≤ 100mA | -- | 0.3 | -- | |
| Output Current Limit | ILIM | VOUT=0.9× VOUT(NOM) | 550 | -- | -- | mA |
| Power Supply Rejection Ratio | PSRR | VOUT = 3.3V, IOUT = 40mA, VIN = 5.5V, f = 1kHz | -- | 70 | -- | dB |
| Package Thermal Resistance θJA (Note 1) | Thermal Resistance Junction-to-Ambient | | -- | 210 | -- | °C/W |
| Total Power Dissipation T _C =25°C | P _{DTOT} | | -- | 0.2 | -- | W |

Note: Test condition: For SOT23-5, the device is mounted on FR-4 substrate PC board, with minimum recommended pad layout.

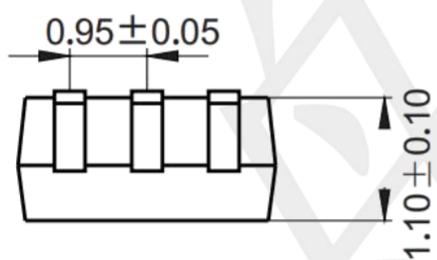
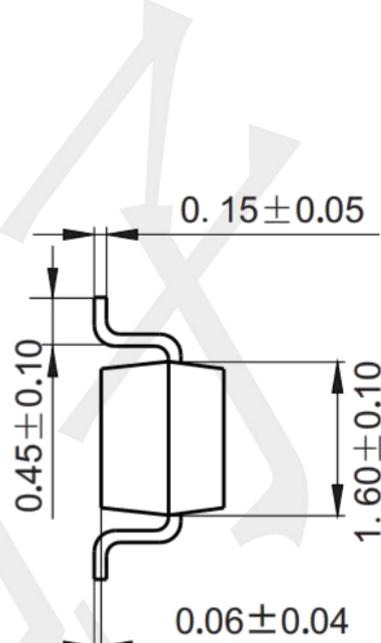
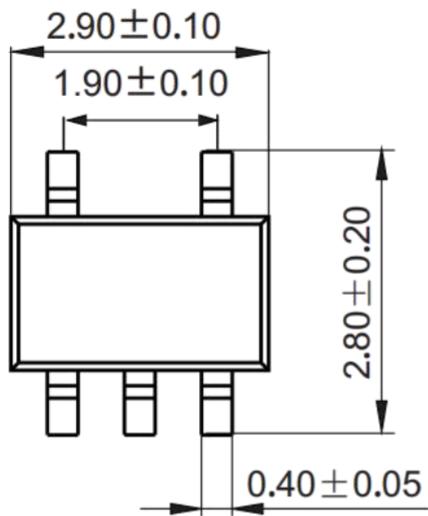
Typical Operating Characteristics (25 °C, unless otherwise noted)

Unless otherwise specified: TA = 25 °C, VIN = VO(NOM) + 1 V, COUT = 1 μF, CIN = 1 μF all voltage options, EN pin tied to VIN.

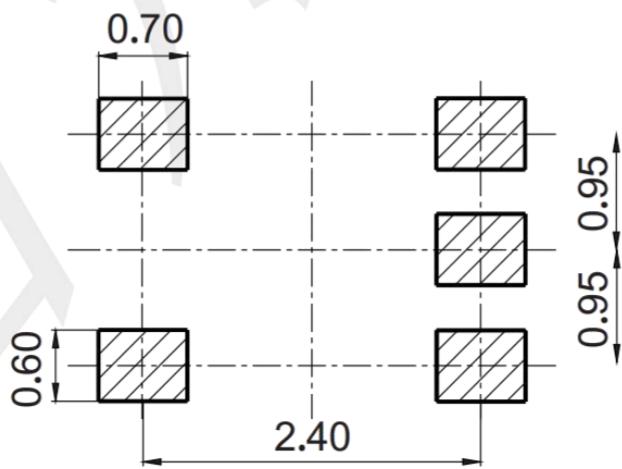


Package Outline Dimensions (unit: mm)

SOT23-5



Mounting Pad Layout (unit: mm)



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