



300mAHigt PSRR LDO Regulator

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General Description

XC6219B is a high performance, 300mA LDO regulator, offering extremely high PSRR and ultra-low dropout. Ideal for portable RF and wireless applications with demanding performance and space requirements.

XC6219 is available in 5pin SOT23-5 Package .the output standards of 1.2V 1.5V 1.8V 2.5V 2.8V 3.0V 3.3V

Features

- Quiescent Current: 70uA
- PSRR:70dB@1KHz
- 1uA current at shutdown mode
- Output current:300mA(Typ.)
- SOT23-5 package

Applications

- CDM/GSM mobile phone
- PDAs /MP3
- Audio/Video equipment

Ordering Information

XC6219B332MR

Output voltage: 12=1.2V

15=1.5V 18=1.8V

18=1.8V

30=3.0V33=3.3V

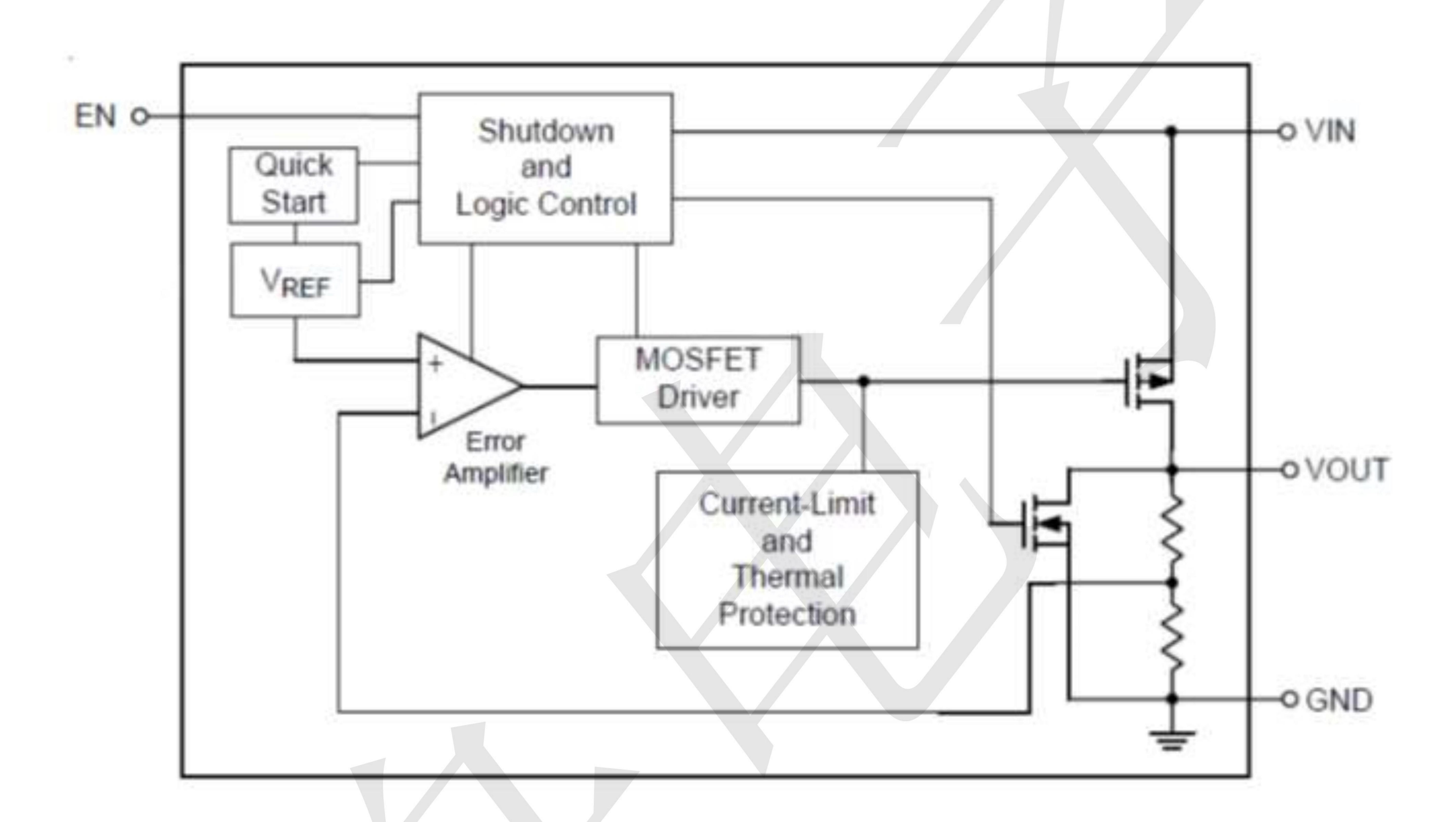
XX=X.XV



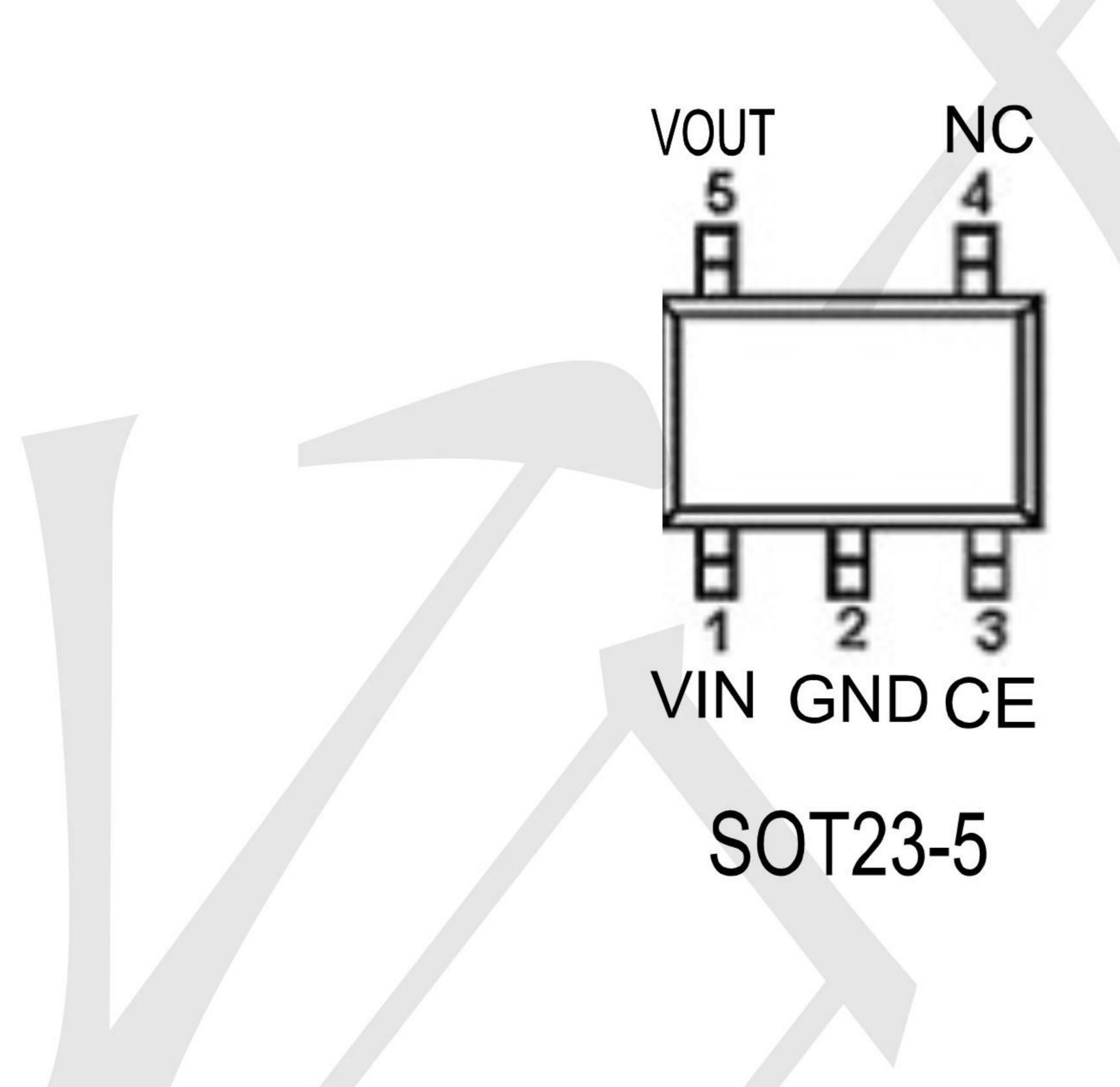


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BLOCK DIAGRAM



PIN CONFIGURATION



| Pin Name | Function |
|----------|----------------|
| VIN | Supply power |
| GND | Ground |
| CE | Enable pin |
| NC | NC |
| VOUT | Voltage output |





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Absolute Maximum Rating (TA=25°C unless otherwise noted)

| Parameter | Symbol | Maximum Rating | Unit |
|-------------------------------|------------------|---|------|
| Input Voltage | V _{IN} | 6 | |
| Output Voltage | Vout | V _{SS} -0.3∼V _{IN} +0.3 | V |
| Output Current | l _{out} | 450 | mA |
| Power Dissipation | P _D | SOT-23-5 250 | mW |
| Operating Ambient Temperature | Topr | -40~+85 | |
| Storage Temperature | Tstg | -40~+125 | |

Electrical Characteristics (T =25°C unless otherwise noted)

(Vin=Vout+1V,Cin=Cout=1uF,Ta=25°C)

| PARAMETER | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNITS |
|--------------------------|--|---|--------|----------------------------------|--------|-------|
| Output Voltage | V _{OUT} (E) (Note 2) | I _{OUT} =40mA, V _{IN} =Vout+1V | X 0.98 | V _{OUT} (T) (Note 1) | X 1.02 | V |
| Input Voltage | V _{IN} | | | | 6 | V |
| Max. Output Current | I _{OUT} max | V _{IN} =Vout+1V | | 300 | | mA |
| Load Regulation | ΔV_{OUT} | V _{IN} =Vout+1V, 1mA≤I _{OUT} ≤100mA | | 50 | | mV |
| Dropout Voltage | V_{dif1} | $I_{OUT} = 100 mA$ | | 90 | | mV |
| (Note 3) | V_{dif2} | $I_{OUT} = 200 \text{mA}$ | | 230 | | mV |
| Supply Current | Iss | $V_{IN}=Vout+1V$ | | 70 | | μΑ |
| Standby Current | I _{CEL} | Vce=0V | | | | μΑ |
| Line Regulation | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | I_{OUT} =40mA Vout+1V \leq $V_{IN} \leq$ 8V | | 0.05 | | %/\ |
| Output Noise | en | I _{OUT} =40mA, 300Hz~50kHz | | uVrms | | |
| Ripple Rejection Rate | PSRR | Vin= [Vout+1]V +1Vp-pAC I _{OUT} =40mA,f=1kHz | | 70 | | dB |

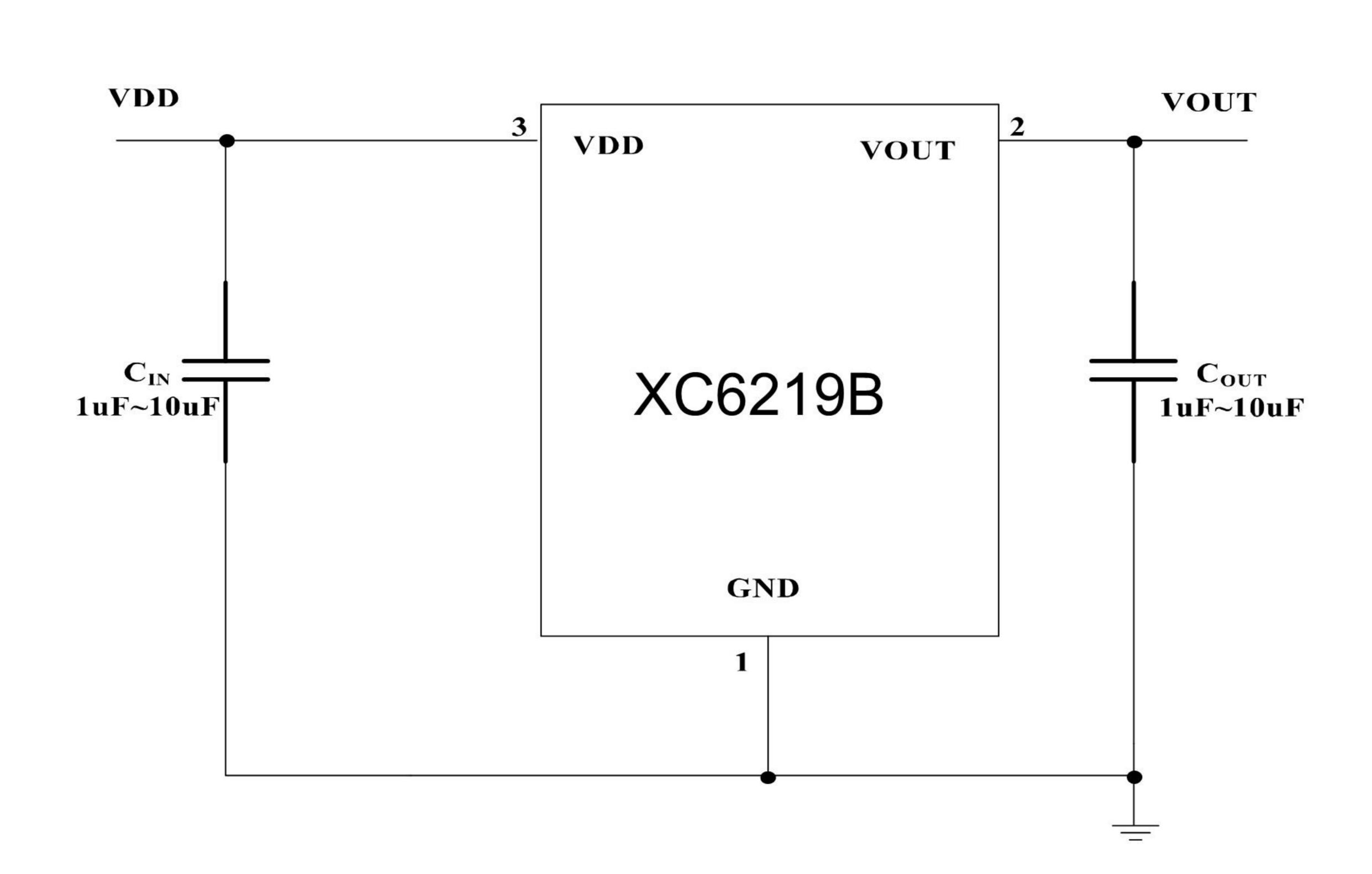


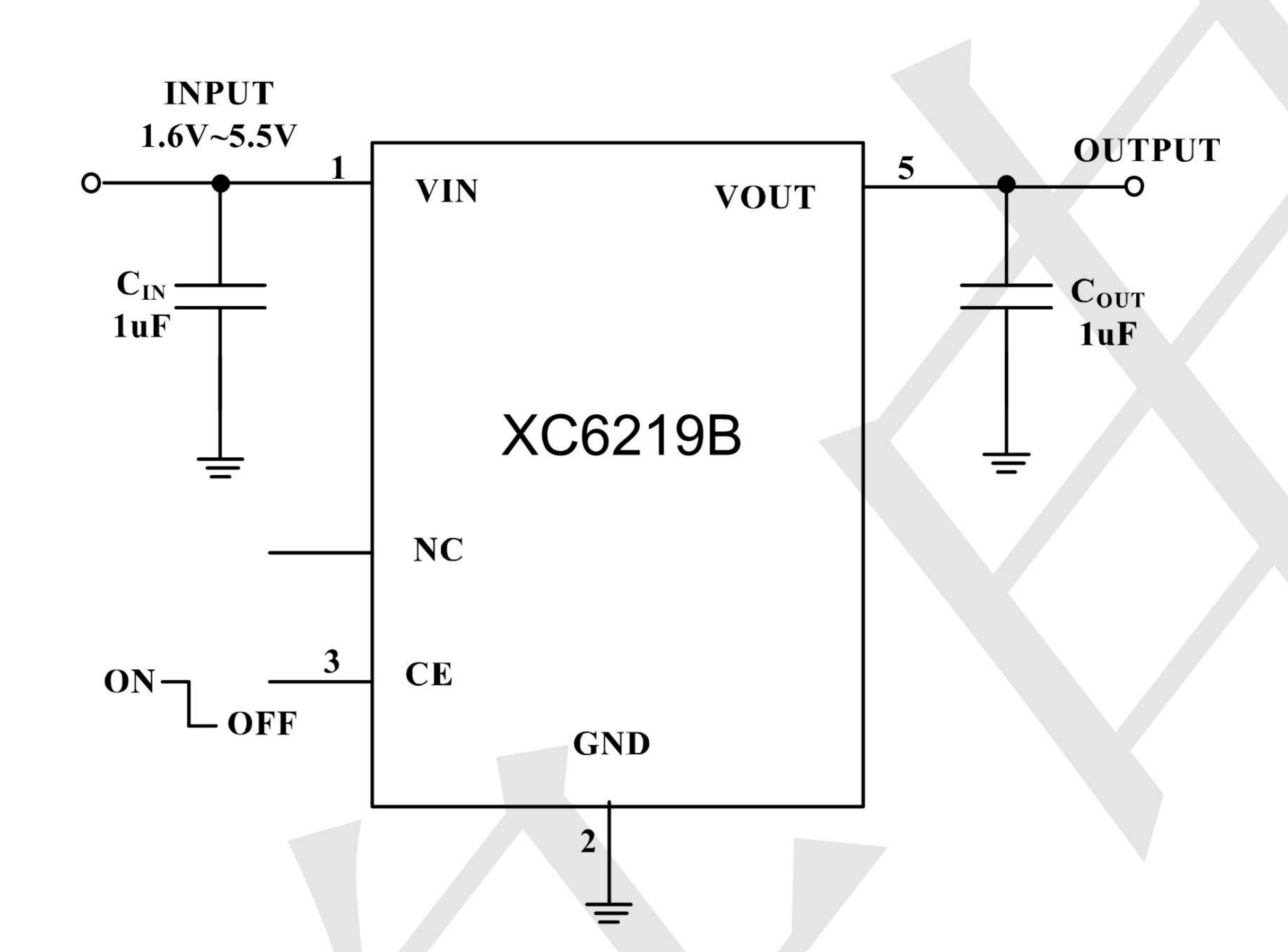


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TYPICAL APPLICATION



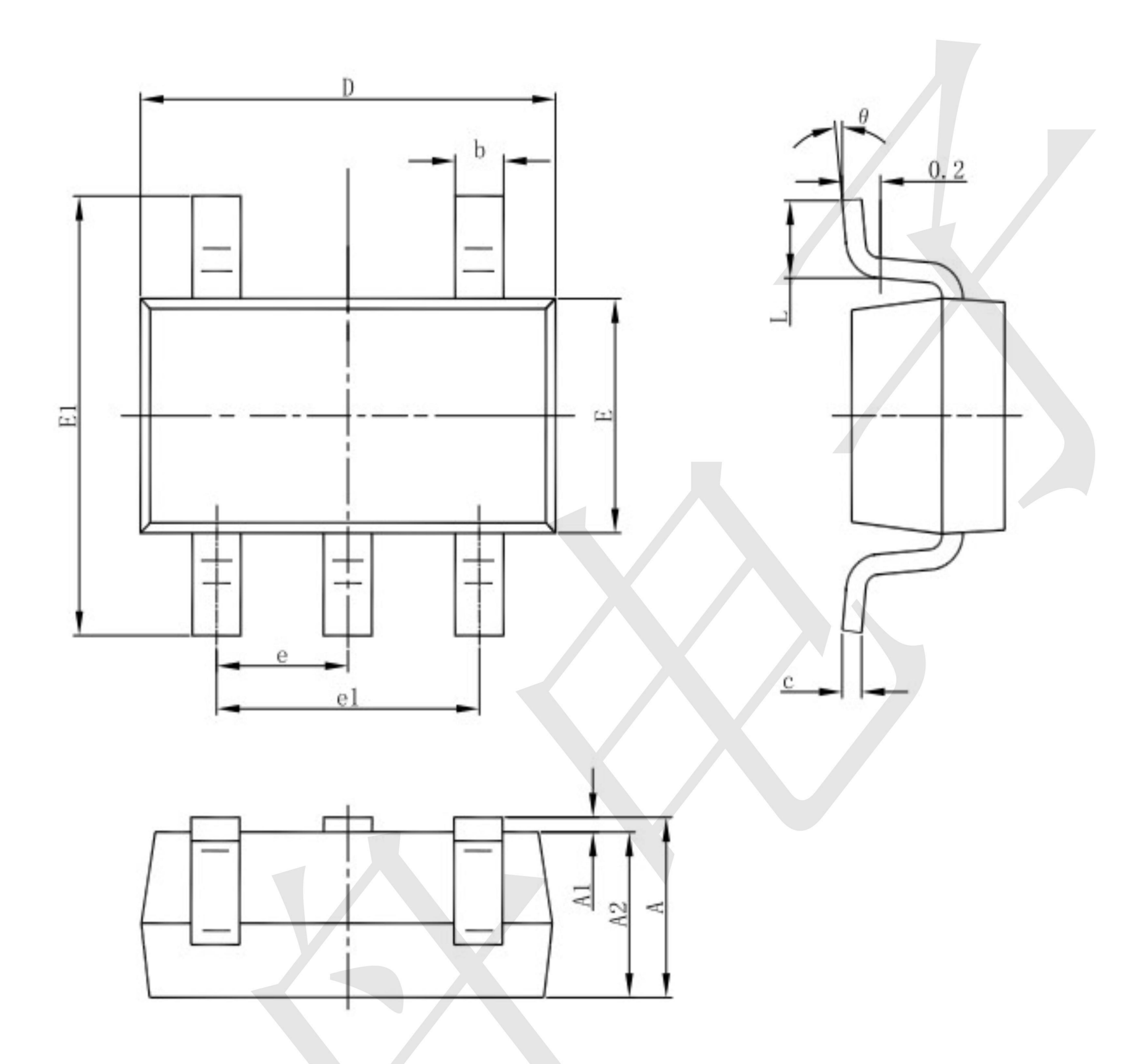




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Package informantion

SOT23-5



| Symbol | Dimensions In | Millimeters | Dimensions In Inches | | |
|--------|---------------|-------------|----------------------|-------|--|
| | Min | Max | Nin | Max | |
| A | 1.050 | 1.250 | 0.041 | 0.049 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 | |
| b | 0.300 | 0.500 | 0.012 | 0.020 | |
| C | 0.100 | 0.200 | 0.004 | 0.008 | |
| D | 2.820 | 3.020 | 0.111 | 0.119 | |
| E | 1.500 | 1.700 | 0.059 | 0.067 | |
| E1 | 2.650 | 2.950 | 0.104 | 0.116 | |
| е | 0.950(BSC) | | 0.037(| BSC) | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 | |
| L | 0.300 | 0.600 | 0.012 | 0.024 | |
| θ | 0° | 8° | 0° | 8° | |

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