



Low power consumption, Low ESR Cap. Compatible

General Description

ME6216 series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS technologies. The series provides large currents with a significantly small dropout voltage.

The series is compatible with low ESR ceramic capacitors. The current limiter's foldback circuit also operates as a short protect for the output current limiter and the output pin.

Features

- Output voltage range: 1.0V~5.0V
- Input voltage: up to 6 V
- Dropout Voltage: 110mV@ $I_{OUT}=100mA$
240mV@ $I_{OUT}=200mA$
- Highly Accuracy: $\pm 1\%$
- Low power consumption: 6 μA (TYP.)
- Large output current: 300mA ($V_{IN}=4.3V, V_{OUT}=3.3V$)
- Excellent Input Stability
- Be available to regulator and reference voltage

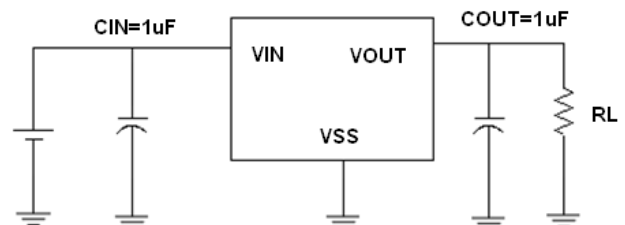
Typical Application

- Communication tools
- Mobile phones
- Portable games
- Portable AV systems
- Cameras, Video systems
- Reference voltage sources

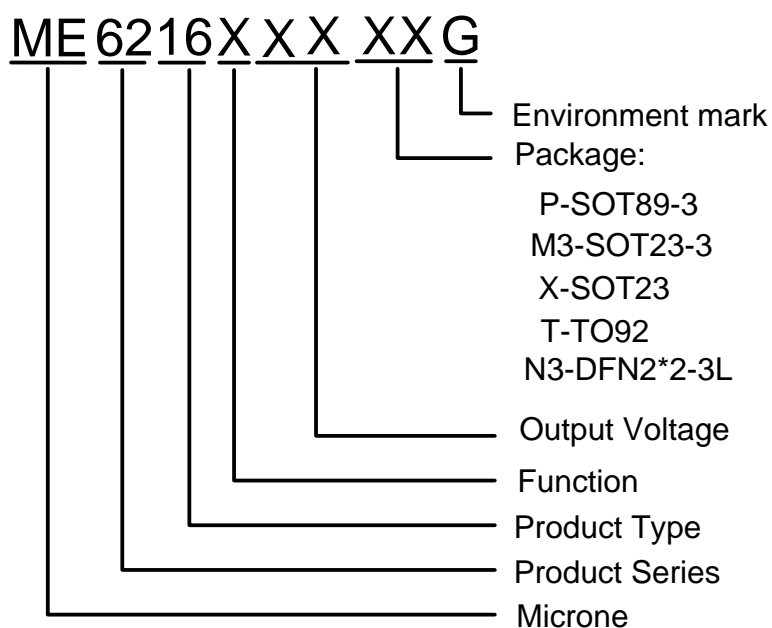
Package

- 3-pin SOT89-3, SOT23-3, SOT23, TO92, DFN2*2-3L

Typical Application Circuit



Selection Guide

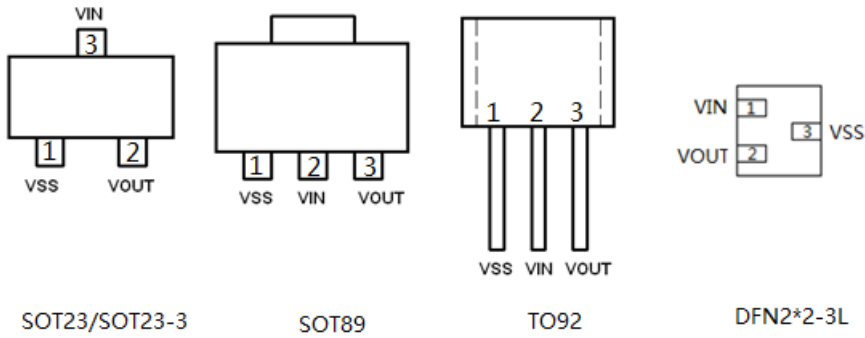


| product series | product description |
|----------------|---|
| ME6216A10PG | V _{OUT} =1.0V; Package: SOT89-3 |
| ME6216A12M3G | V _{OUT} =1.2V; Package: SOT23-3 |
| ME6216A14M3G | V _{OUT} =1.4V; Package: SOT23-3 |
| ME6216A28M3G | V _{OUT} =2.8V; Package: SOT23-3 |
| ME6216A38M3G | V _{OUT} =3.8V; Package: SOT23-3 |
| ME6216A30XG | V _{OUT} =3.0V; Package: SOT23 |
| ME6216A18TG | V _{OUT} =1.8V; Package: TO92 |
| ME6216A18N3AG | V _{OUT} =1.8V; Package: DFN2*2-3L(2.0*2.0*0.55-1.30) |

NOTE:

1. At present ,there are twelve kinds of voltage value: 1.0V、 1.2V、 1.3V、 1.4V、 1.5V、 1.8V、 2.0V、 2.5V、 2.7V、 2.8V、 3.0V、 3.3V、 3.6V、 3.8V、 5.0V。
2. If you need other voltage and package, please contact our sales staff。

Pin Configuration

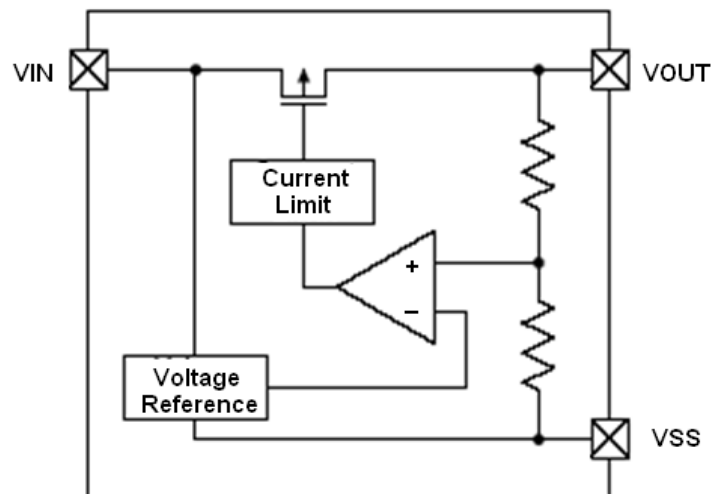


Pin Assignment

ME6216Axx

| Pin | | | | | Name | Function |
|---------|---------|-------|-------|-------|------|----------|
| M3 | P | X | T | N3 | | |
| SOT23-3 | SOT89-3 | SOT23 | TO-92 | DFN3L | | |
| 1 | 1 | 1 | 1 | 3 | VSS | Ground |
| 2 | 3 | 2 | 3 | 2 | VOUT | Output |
| 3 | 2 | 3 | 2 | 1 | VIN | Input |

Block Diagram



Absolute Maximum Ratings

| Parameter | Symbol | Description | Units | |
|-------------------------------|-----------|-------------------------------|-------|----|
| Input Voltage | V_{IN} | 6.5 | V | |
| Output Current | I_{OUT} | 390 | mA | |
| Output Voltage | V_{OUT} | $V_{SS}-0.3 \sim V_{out}+0.3$ | V | |
| Power Dissipation | SOT23-3 | P_d | 300 | mW |
| | SOT89-3 | P_d | 500 | mW |
| | SOT23 | P_d | 300 | mW |
| | TO-92 | P_d | 500 | mW |
| | DFN3L | P_d | 500 | mW |
| Operating Ambient Temperature | T_{Opr} | -25 ~ +125 | °C | |
| Storage Temperature | T_{stg} | -40 ~ +125 | °C | |

Electrical Characteristics

ME6216 ($V_{out}=1.2V$)

($V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1\mu F, T_a=25^{\circ}C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|--|--|--|------------------------|--------------------------|------------------------|---------|
| Output Voltage ($V_{out}=1.0\sim 1.3V$) | $V_{OUT}(E)$ (Note 2) | $I_{OUT}=10mA,$ $V_{IN}=V_{OUT}+1V$ | $V_{OUT}(T)$ -0.015 | $V_{OUT}(T)$ (Note 1) | $V_{OUT}(T)$ +0.015 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT} (max)$ | $V_{IN}= V_{OUT} +1V$ | | 250 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 8 | 12 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} =100mA$ | | 320 | 350 | mV |
| | V_{dif2} | $I_{OUT} =200mA$ | | 570 | 600 | mV |
| Supply Current | I_{SS} | $V_{IN}= V_{OUT} +1V$ | | 6 | 8 | μA |
| Line Regulations | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | $I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$ | | 0.05 | 0.2 | %/V |
| Power Supply Ripple Rejection Ratio | PSRR | $V_{in}= [V_{OUT} +1]V$ +1Vp-pAC $I_{OUT} =10mA, f=1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{in}= V_{OUT} (T)+1V$ $V_{OUT} =V_{SS}$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN}= V_{OUT} +1V$ | | 310 | 340 | mA |

ME6216 (Vout=1.4V)

($V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1\mu F, T_a=25^{\circ}C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|-------------------------------------|--|---|--------|--------------------------|--------|---------|
| Output Voltage | $V_{OUT(E)}$ (Note 2) | $I_{OUT}=10mA,$ $V_{IN}=V_{OUT}+1V$ | X 0.99 | $V_{OUT(T)}$ (Note 1) | X 1.01 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT (max)}$ | $V_{IN}= V_{OUT} +1V$ | | 250 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 8 | 12 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} =100mA$ | | 280 | 300 | mV |
| | V_{dif2} | $I_{OUT} =200mA$ | | 510 | 530 | mV |
| Supply Current | I_{SS} | $V_{IN}= V_{OUT} +1V$ | | 6 | 8 | μA |
| Line Regulations | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | $I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$ | | 0.05 | 0.2 | %/V |
| Power Supply Ripple Rejection Ratio | PSRR | $V_{in}= [V_{OUT} +1]V$ $+1V_{p-pAC}$ $I_{OUT} =10mA, f=1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{in}= V_{OUT} (T)+1V$ $V_{OUT} =V_{SS}$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN}= V_{OUT} +1V$ | | 380 | 420 | mA |

ME6216 (Vout=1.8V)

($V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1\mu F, T_a=25^{\circ}C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|-----------------------------|--|--|--------|--------------------------|--------|---------|
| Output Voltage | $V_{OUT(E)}$ (Note 2) | $I_{OUT}=10mA,$ $V_{IN}=V_{OUT}+1V$ | X 0.99 | $V_{OUT(T)}$ (Note 1) | X 1.01 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT (max)}$ | $V_{IN}= V_{OUT} +1V$ | | 300 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN}= V_{OUT} +1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 8 | 12 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} =100mA$ | | 190 | 210 | mV |
| | V_{dif2} | $I_{OUT} =200mA$ | | 380 | 400 | mV |
| Supply Current | I_{SS} | $V_{IN}= V_{OUT} +1V$ | | 6 | 8 | μA |
| Line Regulations | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | $I_{OUT} =10mA$ $V_{out}+1V \leq V_{IN} \leq 6V$ | | 0.05 | 0.2 | %/V |

| | | | | | | |
|-------------------------------------|-------------|--|--|-----|-----|----|
| Power Supply Ripple Rejection Ratio | PSRR | $V_{in} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{in} = V_{OUT}(T) + 1V$ $V_{OUT} = VSS$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN} = V_{OUT} + 1V$ | | 380 | 420 | mA |

ME6216(Vout=2.8V)

($V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^\circ C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|-------------------------------------|--|--|--------|--------------------------|--------|---------|
| Output Voltage | $V_{OUT}(E)$ (Note 2) | $I_{OUT} = 10mA,$ $V_{IN} = V_{OUT} + 1V$ | X 0.99 | $V_{OUT}(T)$ (Note 1) | X 1.01 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT} (max)$ | $V_{IN} = V_{OUT} + 1V$ | | 300 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 8 | 14 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} = 100mA$ | | 120 | 140 | mV |
| | V_{dif2} | $I_{OUT} = 200mA$ | | 230 | 250 | mV |
| Supply Current | I_{SS} | $V_{IN} = V_{OUT} + 1V$ | | 5 | 8 | μA |
| Line Regulations | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | $I_{OUT} = 10mA$ $V_{out} + 1V \leq V_{IN} \leq 6V$ | | 0.05 | 0.2 | %/V |
| Power Supply Ripple Rejection Ratio | PSRR | $V_{in} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{in} = V_{OUT}(T) + 1V$ $V_{OUT} = VSS$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN} = V_{OUT} + 1V$ | | 380 | 420 | mA |

ME6216(Vout=3.3V)

($V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^\circ C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|-----------------------------|--------------------------|--|--------|--------------------------|--------|------|
| Output Voltage | $V_{OUT}(E)$ (Note 2) | $I_{OUT} = 10mA,$ $V_{IN} = V_{OUT} + 1V$ | X 0.99 | $V_{OUT}(T)$ (Note 1) | X 1.01 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT} (max)$ | $V_{IN} = V_{OUT} + 1V$ | | 300 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 14 | 18 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} = 100mA$ | | 100 | 120 | mV |
| | V_{dif2} | $I_{OUT} = 200mA$ | | 210 | 260 | mV |

| | | | | | | |
|-------------------------------------|--|--|--|------|-----|---------|
| Supply Current | I_{SS} | $V_{IN} = V_{OUT} + 1V$ | | 4 | 8 | μA |
| Line Regulations | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$ | $I_{OUT} = 10mA$ $V_{OUT} + 1V \leq V_{IN} \leq 6V$ | | 0.07 | 0.2 | %/V |
| Power Supply Ripple Rejection Ratio | PSRR | $V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{IN} = V_{OUT}(T) + 1V$ $V_{OUT} = V_{SS}$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN} = V_{OUT} + 1V$ | | 380 | 420 | mA |

ME6216(V_{out}=5.0V)

($V_{IN} = V_{OUT} + 1V, C_{IN} = C_{OUT} = 1\mu F, T_a = 25^{\circ}C$ Unless otherwise stated)

| PARAMETER | SYMBOL | CONDITION | MIX | TYP | MAX | UNIT |
|-------------------------------------|--------------------------|--|--------|--------------------------|--------|---------|
| Output Voltage | $V_{OUT}(E)$ (Note 2) | $I_{OUT} = 10mA,$ $V_{IN} = V_{OUT} + 1V$ | X 0.99 | $V_{OUT}(T)$ (Note 1) | X 1.01 | V |
| Input Voltage | V_{IN} | | | | 6 | V |
| Maximum Output Current | $I_{OUT} (max)$ | $V_{IN} = V_{OUT} + 1V$ | | 500 | | mA |
| Load Regulation | ΔV_{OUT} | $V_{IN} = V_{OUT} + 1V$ $1mA \leq I_{OUT} \leq 100mA$ | | 8 | 14 | mV |
| Dropout Voltage (Note 3) | V_{dif1} | $I_{OUT} = 100mA$ | | 90 | 110 | mV |
| | V_{dif2} | $I_{OUT} = 200mA$ | | 170 | 200 | mV |
| Supply Current | I_{SS} | $V_{IN} = V_{OUT} + 1V$ | | 7 | 8 | μA |
| Power Supply Ripple Rejection Ratio | PSRR | $V_{IN} = [V_{OUT} + 1]V$ $+1V_{p-pAC}$ $I_{OUT} = 10mA, f = 1kHz$ | | 65 | | dB |
| Short Circuit Current | I_{short} | $V_{IN} = V_{OUT}(T) + 1V$ $V_{OUT} = V_{SS}$ | | 50 | 70 | mA |
| Over Current Protection | I_{limit} | $V_{IN} = V_{OUT} + 1V$ | | 550 | 600 | mA |

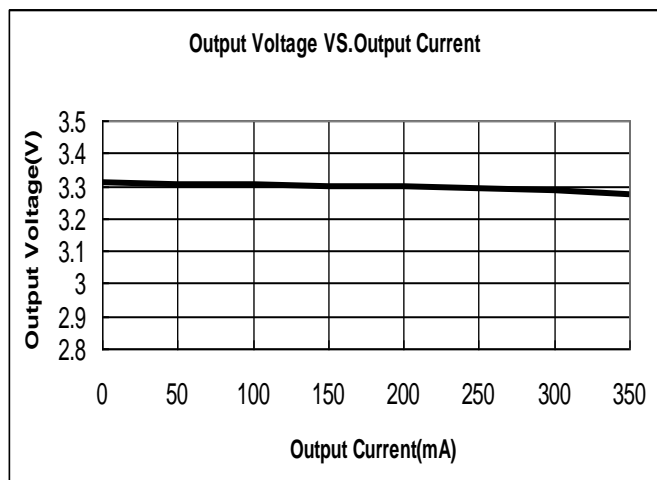
Note :

- $V_{OUT}(T)$: Specified Output Voltage
- $V_{OUT}(E)$: Effective Output Voltage (i.e. The output voltage when " $V_{OUT}(T) + 1.0V$ " is provided at the V_{IN} pin while maintaining a certain I_{OUT} value.)
- V_{dif} : $V_{IN1} - V_{OUT}(E)'$
 V_{IN1} : The input voltage when $V_{OUT}(E)'$ appears as input voltage is gradually decreased.
 $V_{OUT}(E)'$: A voltage equal to 98% of the output voltage whenever an amply stabilized $I_{OUT} \{V_{OUT}(T) + 1.0V\}$ is input.

Type Characteristics (ME6216A33)

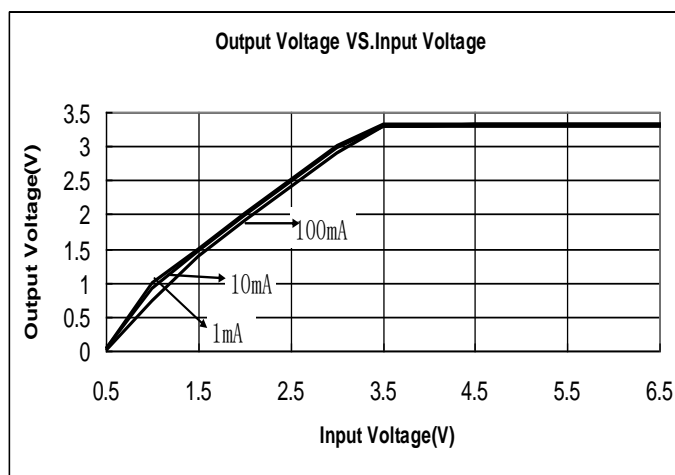
(1) Output Voltage VS. Output Current

($V_{IN}=V_{OUT}+1$, $T_a = 25\text{ }^\circ\text{C}$)



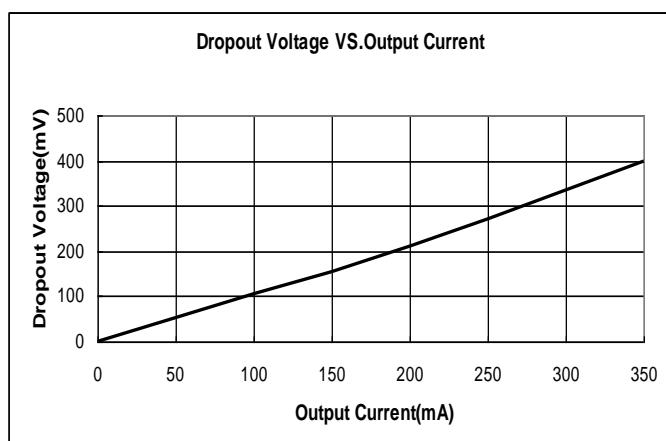
(2) Output Voltage VS. Input Voltage

($T_a = 25\text{ }^\circ\text{C}$)



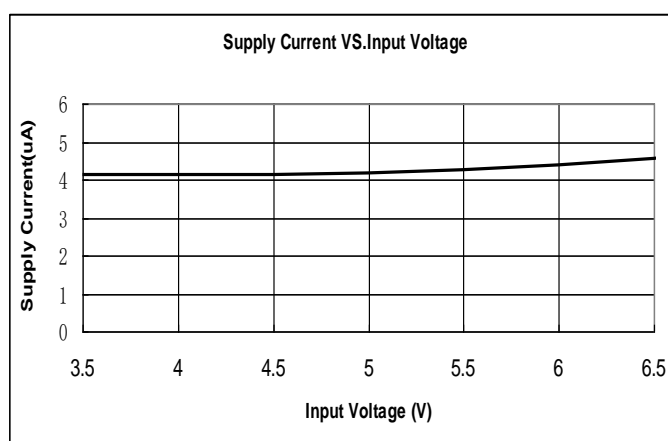
(3) Dropout Voltage VS. Output Current

($V_{IN}=V_{OUT}+1V$, $T_a = 25\text{ }^\circ\text{C}$)

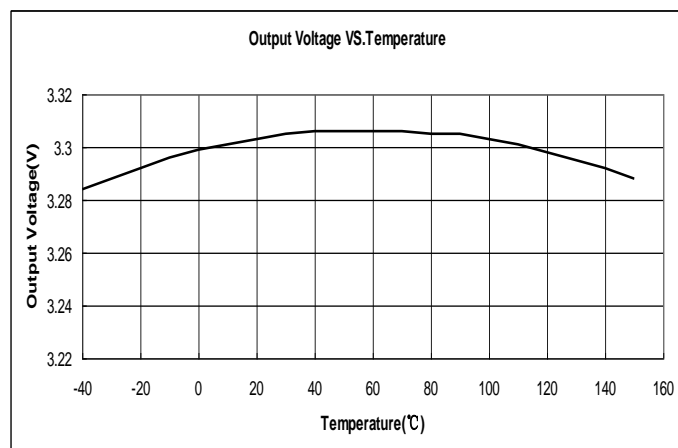


(4) Supply Current VS. Input Voltage

($T_a = 25\text{ }^\circ\text{C}$)

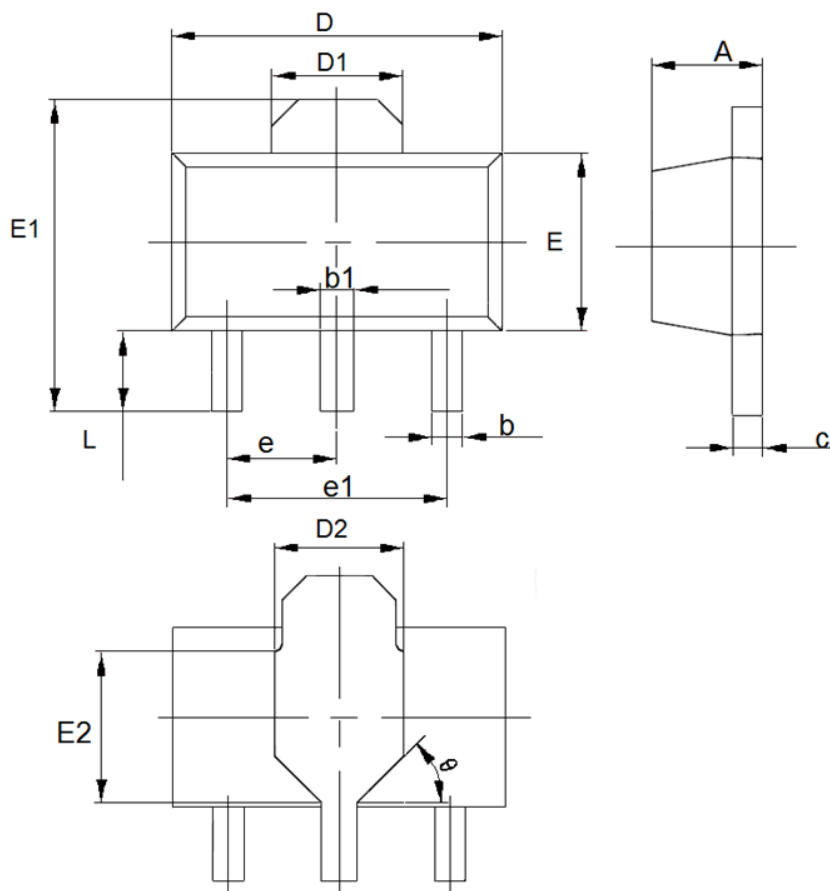


(5) Output Voltage VS. Temperature ($V_{IN}=V_{OUT}+1V$, $I_{OUT} = 10\text{mA}$)



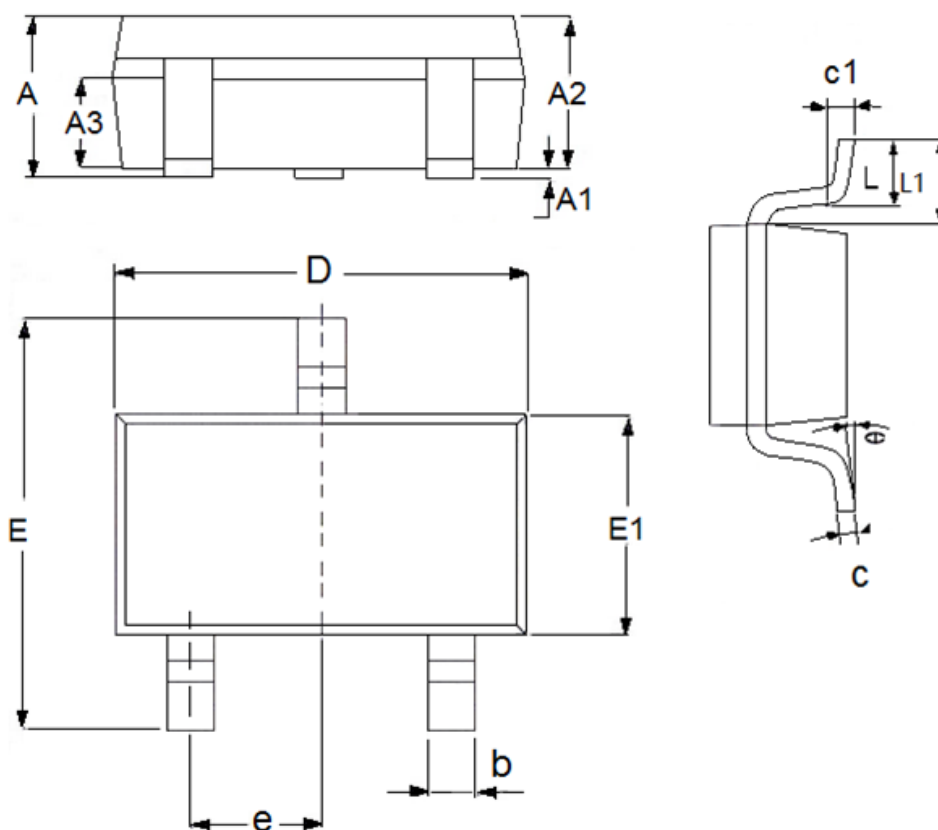
Packaging Information

● SOT89-3



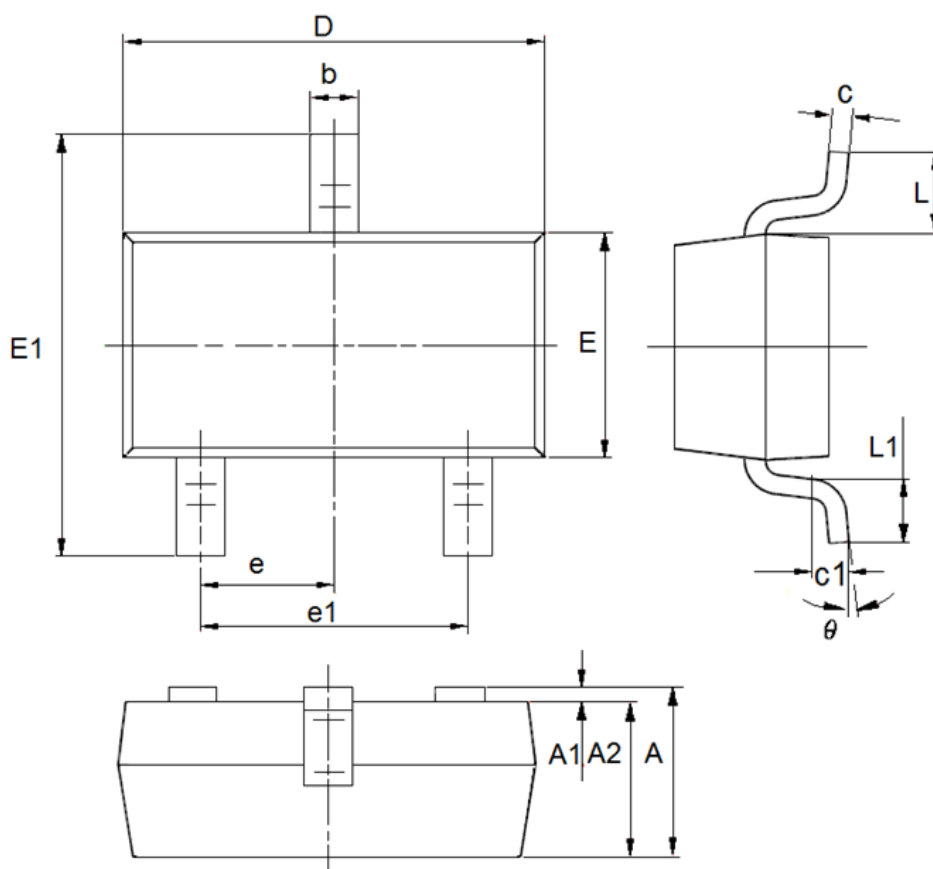
| DIM | Millimeters | | Inches | |
|-----|-------------|------|-------------|---------|
| | Min | Max | Min | Max |
| A | 1.4 | 1.6 | 0.0551 | 0.063 |
| b | 0.32 | 0.52 | 0.0126 | 0.0205 |
| b1 | 0.4 | 0.58 | 0.0157 | 0.0228 |
| c | 0.35 | 0.45 | 0.0138 | 0.01772 |
| D | 4.4 | 4.6 | 0.1732 | 0.1811 |
| D1 | 1.55(TYP) | | 0.061(TYP) | |
| D2 | 1.75(TYP) | | 0.0689(TYP) | |
| e1 | 3(TYP) | | 0.1181(TYP) | |
| E | 2.3 | 2.6 | 0.0906 | 0.1023 |
| E1 | 3.94 | 4.4 | 0.1551 | 0.1732 |
| E2 | 1.9(TYP) | | 0.0748(TYP) | |
| e | 1.5(TYP) | | 0.0591(TYP) | |
| L | 0.8 | 1.2 | 0.0315 | 0.0472 |
| θ | 45° | | 45° | |

● SOT23-3



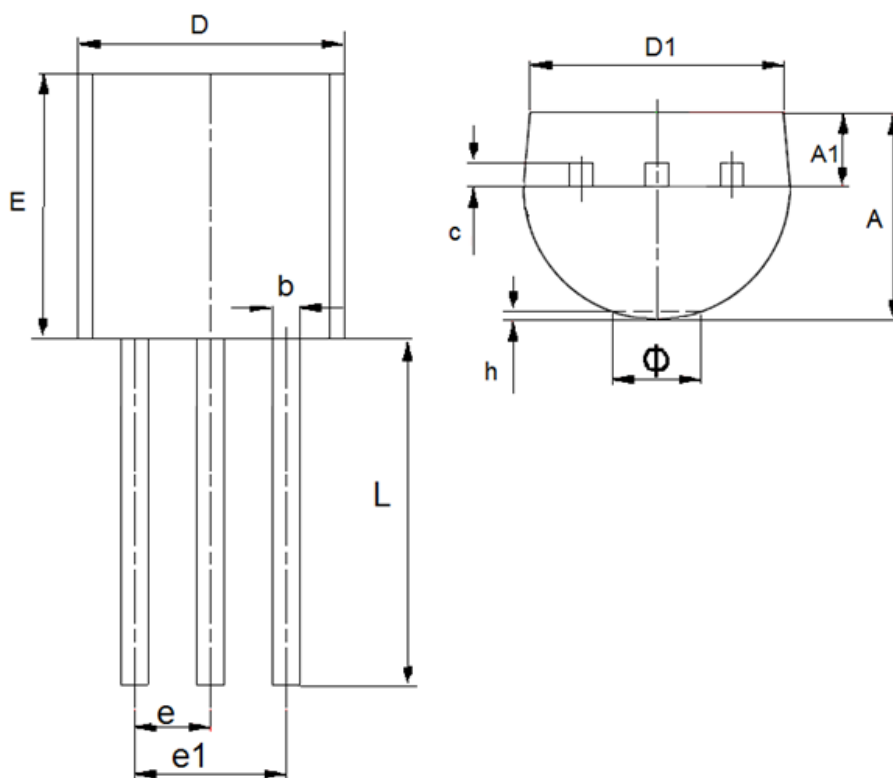
| DIM | Millimeters | | Inches | |
|-----|-------------|------|-------------|--------|
| | Min | Max | Min | Max |
| A | 1 | 1.5 | 0.0394 | 0.0591 |
| A1 | 0 | 0.15 | 0 | 0.0059 |
| A2 | 0.9 | 1.3 | 0.0354 | 0.0512 |
| A3 | 0.6 | 0.7 | 0.0236 | 0.0276 |
| b | 0.25 | 0.5 | 0.0098 | 0.0197 |
| c | 0.1 | 0.25 | 0.0039 | 0.0098 |
| D | 2.8 | 3.1 | 0.1102 | 0.122 |
| E | 2.6 | 3.1 | 0.1023 | 0.122 |
| E1 | 1.5 | 1.8 | 0.0591 | 0.0709 |
| e | 0.95(TYP) | | 0.0374(TYP) | |
| L | 0.25 | 0.6 | 0.0098 | 0.0236 |
| L1 | 0.59(TYP) | | 0.0232(TYP) | |
| θ | 0 | 8° | 0 | 8° |
| c1 | 0.2(TYP) | | 0.0079(TYP) | |

● SOT23



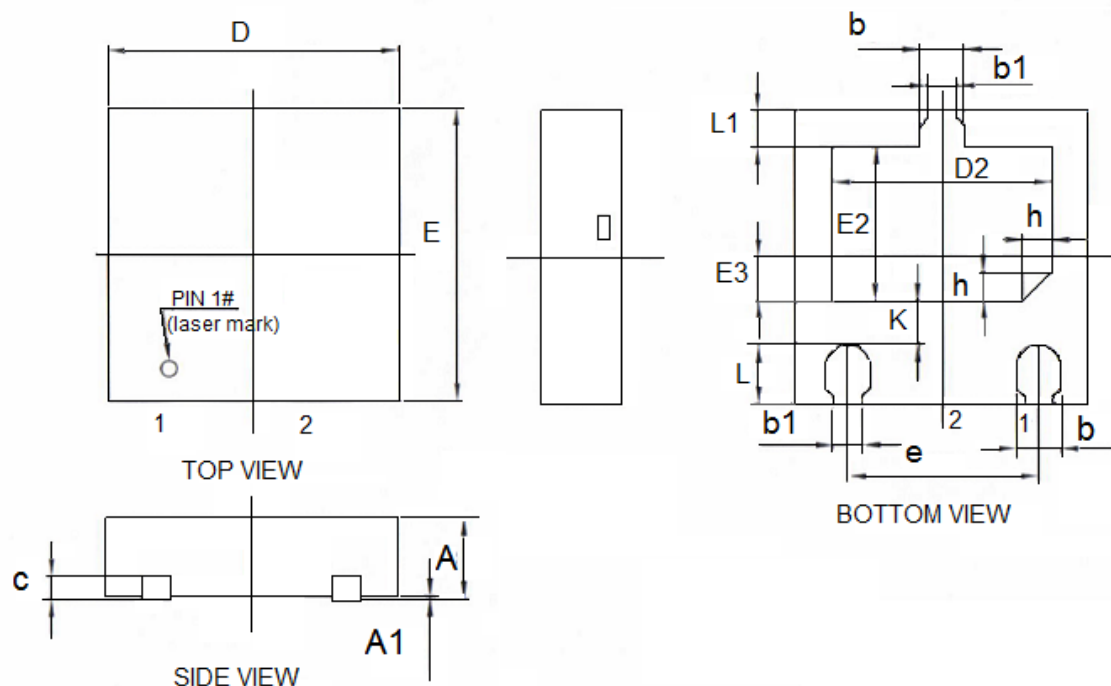
| DIM | Millimeters | | Inches | |
|----------|-------------|------|-------------|--------|
| | Min | Max | Min | Max |
| A | 0.9 | 1.15 | 0.0354 | 0.0453 |
| A1 | 0 | 0.14 | 0 | 0.0055 |
| A2 | 0.9 | 1.05 | 0.0354 | 0.0413 |
| b | 0.28 | 0.52 | 0.011 | 0.0205 |
| c | 0.07 | 0.23 | 0.0028 | 0.0091 |
| D | 2.8 | 3 | 0.1102 | 0.1181 |
| e1 | 1.8 | 2 | 0.0709 | 0.0787 |
| E | 1.2 | 1.4 | 0.0472 | 0.0551 |
| E1 | 2.25 | 2.55 | 0.0886 | 0.1004 |
| e | 0.95(TYP) | | 0.0374(TYP) | |
| L | 0.55(TYP) | | 0.0217(TYP) | |
| L1 | 0.25 | 0.55 | 0.0098 | 0.0217 |
| θ | 0 | 8° | 0 | 8° |
| c1 | 0.25(TYP) | | 0.0098(TYP) | |

● TO-92



| DIM | Millimeters | | Inches | |
|-----|-------------|------|--------|--------|
| | Min | Max | Min | Max |
| A | 3.3 | 3.7 | 0.1299 | 0.1457 |
| A1 | 1.1 | 1.4 | 0.0433 | 0.0551 |
| b | 0.38 | 0.55 | 0.015 | 0.0217 |
| c | 0.36 | 0.51 | 0.0142 | 0.0201 |
| D | 4.3 | 4.7 | 0.1693 | 0.185 |
| D1 | 3.43 | — | 0.135 | — |
| E | 4.3 | 4.7 | 0.1693 | 0.185 |
| e | 1.27 | | 0.05 | |
| e1 | 2.44 | 2.64 | 0.0961 | 0.1039 |
| L | 14.1 | 14.5 | 0.5551 | 0.5709 |
| h | 0 | 0.38 | 0 | 0.015 |
| Φ | — | 1.6 | — | 0.063 |

● DFN3L(2.0*2.0*0.55-1.30)



| DIM | Millimeters | | Inches | |
|-----|-------------|------|------------|------------|
| | Min | Max | Min | Max |
| A | 0.5 | 0.6 | 0.0197 | 0.0236 |
| A1 | 0 | 0.05 | 0 | 0.002 |
| c | 0.152REF | | 0.006REF | |
| b | 0.25 | 0.35 | 0.0098 | 0.0138 |
| D | 1.9 | 2.1 | 0.0748 | 0.0827 |
| b1 | 0.2REF | | 0.0079REF | |
| E | 1.9 | 2.1 | 0.0748 | 0.0827 |
| E2 | 0.95 | 1.15 | 0.0374 | 0.0453 |
| E3 | 0.2 | 0.4 | 0.0079 | 0.0157 |
| e | 1.3BSC | | 0.0512BSC | |
| L | 0.35 | 0.45 | 0.0138 | 0.0177 |
| L1 | 0.2 | 0.3 | 0.00787402 | 0.01181103 |
| h | 0.2REF | | 0.0079REF | |
| D2 | 1.4 | 1.6 | 0.0551 | 0.063 |
| K | 0.2 | 0.4 | 0.0079 | 0.01579 |

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