



## Low power consumption, Low ESR Cap.Compatible ME6206 Series

### General Description

**ME6206** series are highly precise, low power consumption, high voltage, positive voltage regulators manufactured using CMOS and laser trimming 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

- Maximum Output Current: 300mA ( $V_{IN}=4.3V, V_{OUT}=3.3V$ )
- Dropout Voltage: 200mV@  $I_{OUT} = 100mA$
- Input Voltage Range: up to 6.0V
- Highly Accuracy:  $\pm 2\%$
- Low Power Consumption: 8uA (TYP.)
- Excellent Input Stability
- Be available to regulator and reference voltage

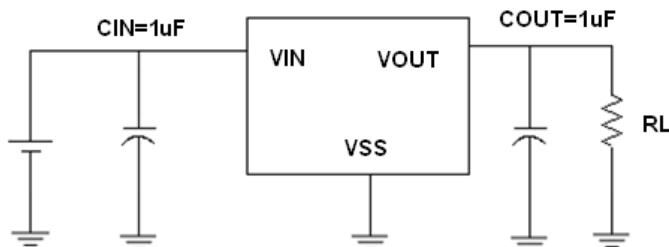
### Typical Application

- Mobile phones
- communication equipment
- Portable games
- Cameras, Video systems
- Reference voltage sources
- Battery powered equipment

### Package

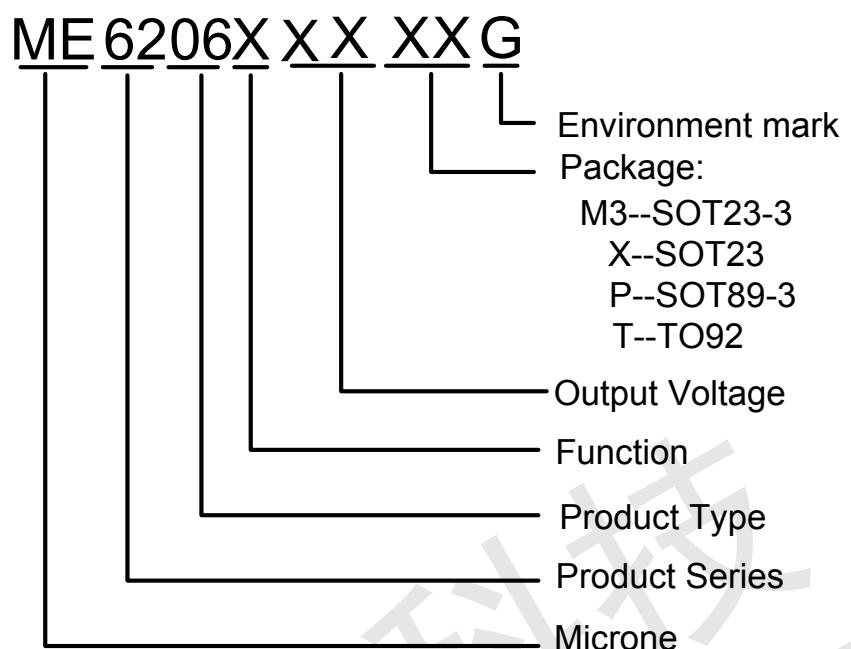
- 3-pin SOT89-3, SOT23-3, TO92, SOT23

### Typical Application Circuit





## Selection Guide



| product series | Output voltage | Supply Current | Package |
|----------------|----------------|----------------|---------|
| ME6206A15PG    | 1.5V           | 8uA            | SOT89-3 |
| ME6206A15M3G   | 1.5V           | 8uA            | SOT23-3 |
| ME6206A15XG    | 1.5V           | 8uA            | SOT23   |
| ME6206A33TG    | 3.3V           | 8uA            | TO92    |
| ME6206A33M3G   | 3.3V           | 8uA            | SOT23-3 |
| ME6206K33M3G   | 3.3V           | 180uA          | SOT23-3 |

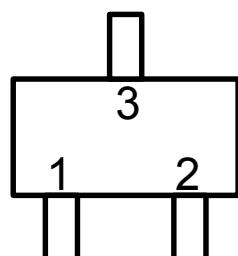
**NOTE:** At present ,there are ten kinds of voltage value:

1.5V、1.8V、2.0V、2.1V、2.5V、2.7V、2.8V、3.0V、3.3V、3.6V。

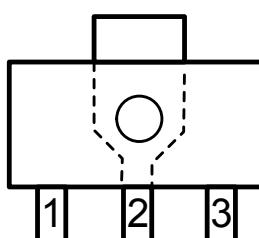
If you need other voltage and package, please contact our sales staff.



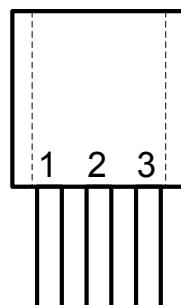
## Pin Configuration



SOT23/SOT23-3



SOT89-3



TO92

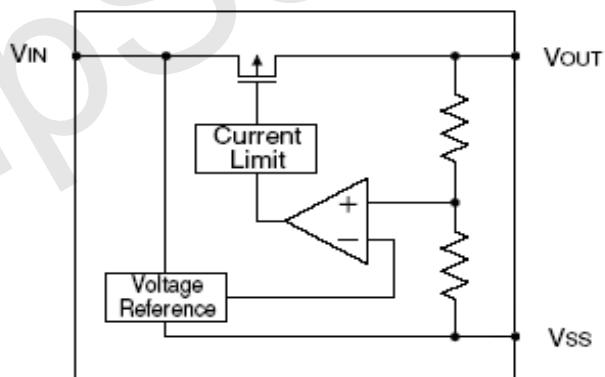
## Pin Assignment

ME6206Axx/ ME6206Kxx

| Pin     |         |         |       |       | Name | Function |
|---------|---------|---------|-------|-------|------|----------|
| M3      | P       | P1      | X     | T     |      |          |
| SOT23-3 | SOT89-3 | SOT89-3 | SOT23 | TO-92 |      |          |
| 1       | 1       | 2       | 1     | 1     | VSS  | Ground   |
| 2       | 3       | 1       | 2     | 3     | VOUT | Output   |
| 3       | 2       | 3       | 3     | 2     | VIN  | Input    |

The difference of printing on the chip between P and P1 is : P: ME6206A , P1: ME6206A1

## Block Diagram



**Absolute Maximum Ratings**

| Parameter                     | Symbol           | Description                                  | Units |
|-------------------------------|------------------|--|-------|
| Input Voltage                 | V <sub>IN</sub>  | 6.5  | V     |
| Output Current                | I <sub>out</sub> | 500  | mA    |
| Output Voltage                | V <sub>out</sub> | V <sub>SS</sub> -0.3 ~ V <sub>out</sub> +0.3 | V     |
| Power Dissipation             | SOT23-3          | P <sub>d</sub>                               | 300   |
|                               | SOT89-3          | P <sub>d</sub>                               | 500   |
|                               | SOT23            | P <sub>d</sub>                               | 300   |
|                               | TO-92            | P <sub>d</sub>                               | 500   |
| Operating Ambient Temperature | T <sub>Opr</sub> | -25 ~ +125                                   | °C    |
| Storage Temperature           | T <sub>stg</sub> | -40 ~ +125                                   | °C    |

**ME6206A15**

(VIN=Vout+1V, Cin=Cout=1uF, Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION  | MIX    | TYP                             | MAX    | UNIT |
|-------------------------------------|--|--|--------|---------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT(E)</sub><br>(Note 2)                          | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V          | X 0.98 | V <sub>OUT(T)</sub><br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |  |        |                                 | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V                                     |        | 100                             | 120    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V,<br>1mA≤I <sub>OUT</sub> ≤80mA      |        | 10                              | 20     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =20mA                                       |        | 180                             | 200    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =50mA                                       |        | 360                             | 380    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V                                     |        | 7                               | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤V <sub>IN</sub> ≤5V       |        | 0.1                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | Vin= [Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA, f=1kHz |        | 45                              | 47     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | Vin=Vout(T)+1.5V<br>Vout=Vss                                 |        | 20                              | 50     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |  |        | 300                             |        | mA   |



## ME6206A18

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION  | MIX    | TYP                             | MAX    | UNIT |
|-------------------------------------|--|--|--------|---------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT(E)</sub><br>(Note 2)                          | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V        | X 0.98 | V <sub>OUT(T)</sub><br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |  |        |                                 | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V                                   |        | 120                             | 150    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V,<br>1mA≤I <sub>OUT</sub> ≤80mA    |        | 12                              | 27     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =20mA                                     |        | 180                             | 200    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =50mA                                     |        | 360                             | 380    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V                                   |        | 7                               | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 5V   |        | 0.1                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | Vin=[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 45                              | 47     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | Vin=Vout(T)+1.5V<br>Vout=Vss                               |        | 25                              | 50     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |  |        | 400                             |        | mA   |

## ME6206A21

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION  | MIX    | TYP                             | MAX    | UNIT |
|-------------------------------------|--|--|--------|---------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT(E)</sub><br>(Note 2)                          | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V        | X 0.98 | V <sub>OUT(T)</sub><br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |  |        |                                 | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V                                   |        | 200                             | 250    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V,<br>1mA≤I <sub>OUT</sub> ≤80mA    |        | 10                              | 20     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =50mA                                     |        | 100                             | 130    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =100mA                                    |        | 200                             | 230    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V                                   |        | 7                               | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 5V   |        | 0.1                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | Vin=[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 45                              | 47     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | Vin=Vout(T)+1.5V<br>Vout=Vss                               |        | 20                              | 50     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |  |        | 450                             |        | mA   |

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## ME6206A28

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION  | MIX    | TYP                              | MAX    | UNIT |
|-------------------------------------|--|--|--------|----------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT</sub> (E)<br>(Note 2)                         | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V        | X 0.98 | V <sub>OUT</sub> (T)<br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |  |        |                                  | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V                                   |        | 300                              | 350    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V<br>1mA≤I <sub>OUT</sub> ≤100mA    |        | 14                               | 28     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =80mA                                     |        | 180                              | 200    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =200mA                                    |        | 380                              | 400    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V                                   |        | 8                                | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 6V   |        | 0.03                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | Vin=[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 50                               | 52     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | Vin=Vout(T)+1.5V<br>Vout=Vss                               |        | 30                               | 60     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |  |        | 500                              |        | mA   |

## ME6206A30

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION  | MIX    | TYP                              | MAX    | UNIT |
|-------------------------------------|--|--|--------|----------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT</sub> (E)<br>(Note 2)                         | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V        | X 0.98 | V <sub>OUT</sub> (T)<br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |  |        |                                  | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V                                   |        | 300                              | 350    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V<br>1mA≤I <sub>OUT</sub> ≤100mA    |        | 14                               | 28     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =80mA                                     |        | 180                              |        | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =200mA                                    |        | 380                              |        | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V                                   |        | 8                                | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 6V   |        | 0.03                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | Vin=[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 50                               | 52     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | Vin=Vout(T)+1.5V<br>Vout=Vss                               |        | 30                               | 60     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |  |        | 500                              |        | mA   |



## ME6206A33

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION   | MIX    | TYP                              | MAX    | UNIT |
|-------------------------------------|--|---|--------|----------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT</sub> (E)<br>(Note 2)                         | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V                     | X 0.98 | V <sub>OUT</sub> (T)<br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |   |        |                                  | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V  |        | 300                              | 350    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V<br>1mA≤I <sub>OUT</sub> ≤100mA                 |        | 14                               | 28     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =80mA  |        | 180                              | 200    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =200mA   |        | 380                              | 400    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V  |        | 9                                | 15     | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 6V                |        | 0.03                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | V <sub>in</sub> =[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 50                               | 52     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | V <sub>in</sub> =Vout(T)+1.5V<br>Vout=Vss                               |        | 30                               | 60     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |   |        | 500                              |        | mA   |

## ME6206K33

(VIN=Vout+1V,Cin=Cout=1uF,Ta=25°C Unless otherwise stated)

| PARAMETER                           | SYMBOL   | CONDITION   | MIX    | TYP                              | MAX    | UNIT |
|-------------------------------------|--|---|--------|----------------------------------|--------|------|
| Output Voltage                      | V <sub>OUT</sub> (E)<br>(Note 2)                         | I <sub>OUT</sub> =10mA,<br>V <sub>IN</sub> =Vout+1V                     | X 0.98 | V <sub>OUT</sub> (T)<br>(Note 1) | X 1.02 | V    |
| Input Voltage                       | V <sub>IN</sub>  |   |        |                                  | 6      | V    |
| Maximum Output Current              | I <sub>OUT</sub> (max)                                   | V <sub>IN</sub> =Vout+1V  |        | 300                              | 350    | mA   |
| Load Regulation                     | ΔV <sub>OUT</sub>  | V <sub>IN</sub> =Vout+1V<br>1mA≤I <sub>OUT</sub> ≤100mA                 |        | 14                               | 28     | mV   |
| Dropout Voltage<br>(Note 3)         | V <sub>dif1</sub>  | I <sub>OUT</sub> =80mA  |        | 180                              | 200    | mV   |
|                                     | V <sub>dif2</sub>  | I <sub>OUT</sub> =200mA   |        | 380                              | 400    | mV   |
| Supply Current                      | I <sub>SS</sub>  | V <sub>IN</sub> =Vout+1V  |        | 180                              | 500    | μA   |
| Line Regulations                    | ΔV <sub>OUT</sub><br>ΔV <sub>IN</sub> • V <sub>OUT</sub> | I <sub>OUT</sub> =10mA<br>Vout+1V ≤ V <sub>IN</sub> ≤ 6V                |        | 0.03                             | 0.2    | %/V  |
| Power Supply Ripple Rejection Ratio | PSRR   | V <sub>in</sub> =[Vout+1]V<br>+1Vp-pAC<br>I <sub>OUT</sub> =10mA,f=1kHz |        | 50                               | 52     | dB   |
| Short Circuit Current               | I <sub>short</sub>                                       | V <sub>in</sub> =Vout(T)+1.5V<br>Vout=Vss                               |        | 30                               | 60     | mA   |
| Over Current Protection             | I <sub>limit</sub>                                       |   |        | 500                              |        | mA   |

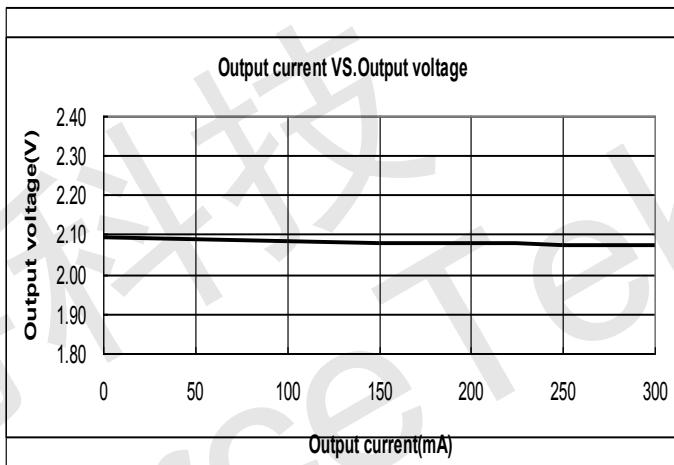
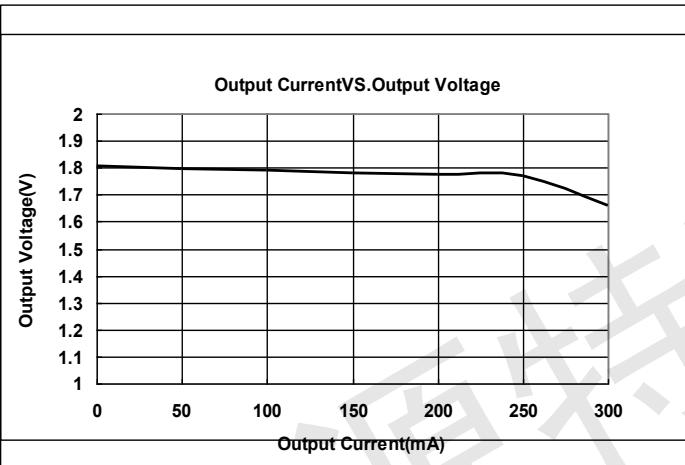
**Note :**

1.  $V_{OUT}(T)$  : Specified Output Voltage
2.  $V_{OUT}(E)$  : Effective Output Voltage ( ie. The output voltage when " $V_{OUT}(T)+1.0V$ " is provided at the Vin pin while maintaining a certain  $I_{out}$  value.)
3.  $V_{dif}$  :  $V_{IN1} - V_{OUT}(E)'$   
 $V_{IN1}$  : 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**(1) Output Current VS. Output Voltage ( $V_{IN}=V_{out}+1$ ,  $T_a = 25^{\circ}\text{C}$ )

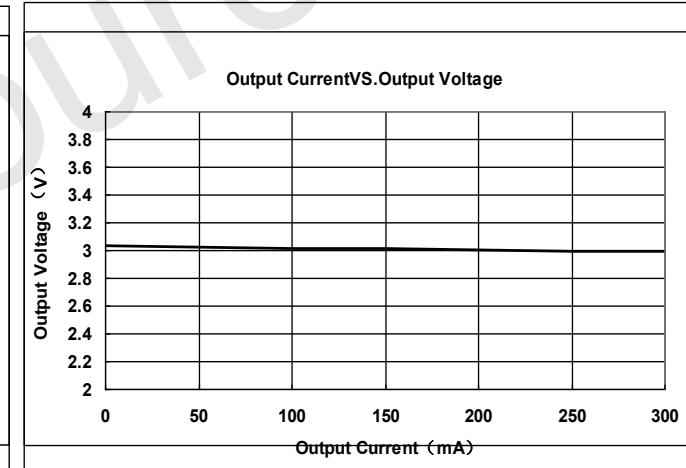
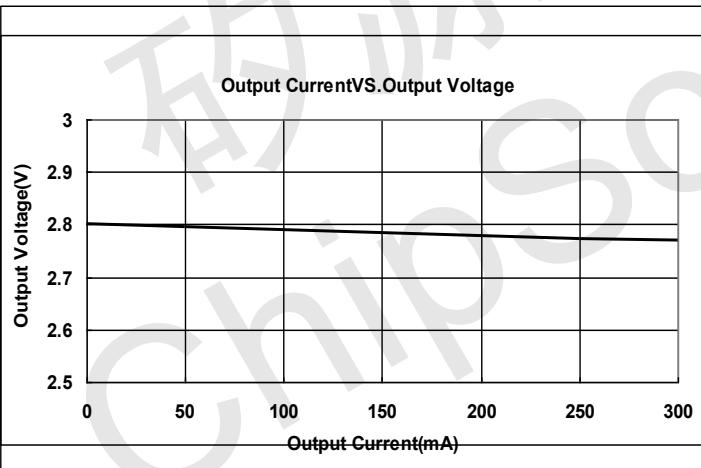
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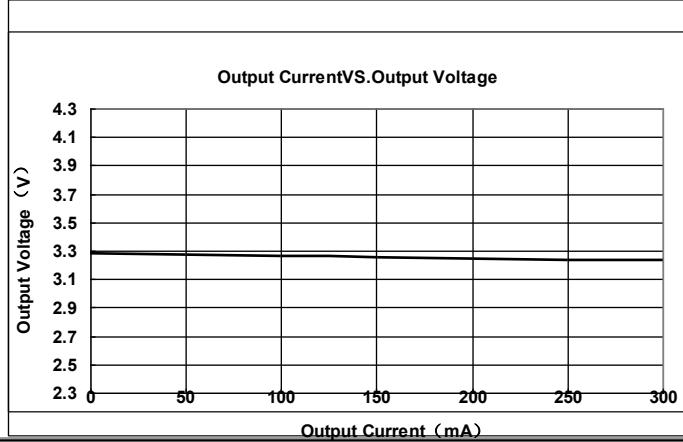


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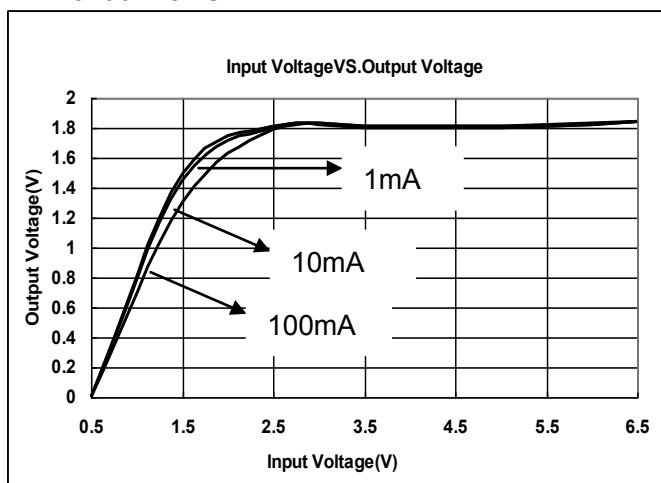


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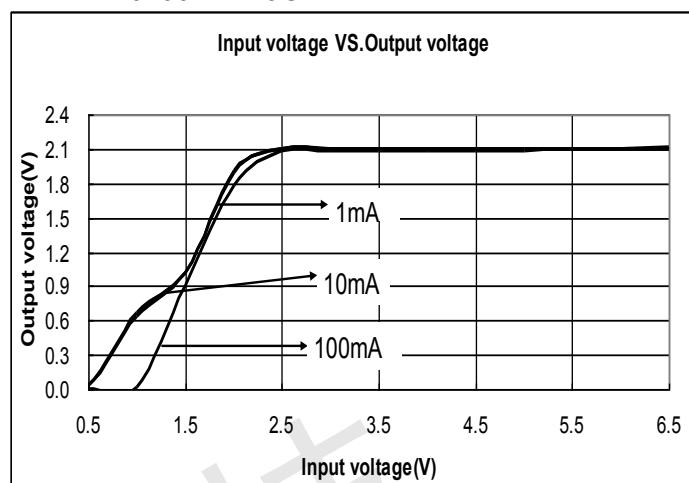


(2) Input Voltage VS. Output Voltage ( $T_a = 25^\circ\text{C}$ )

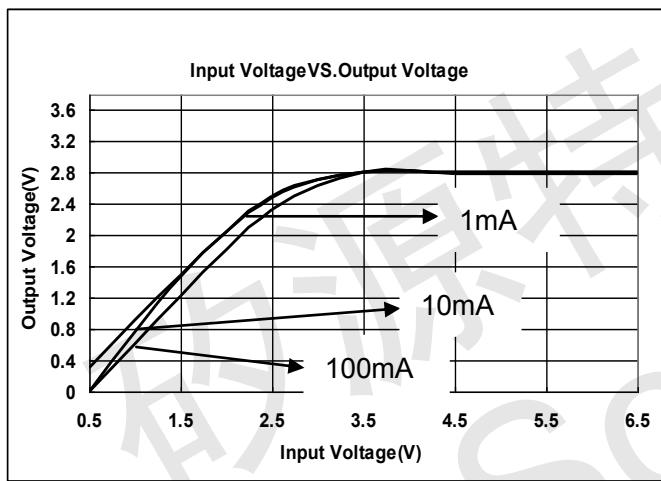
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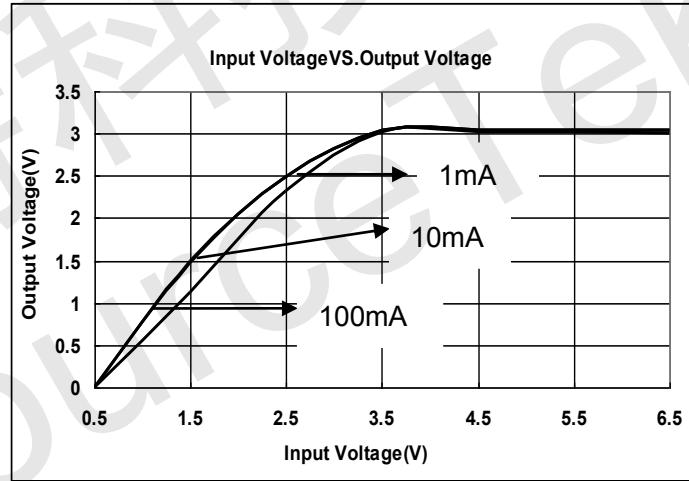
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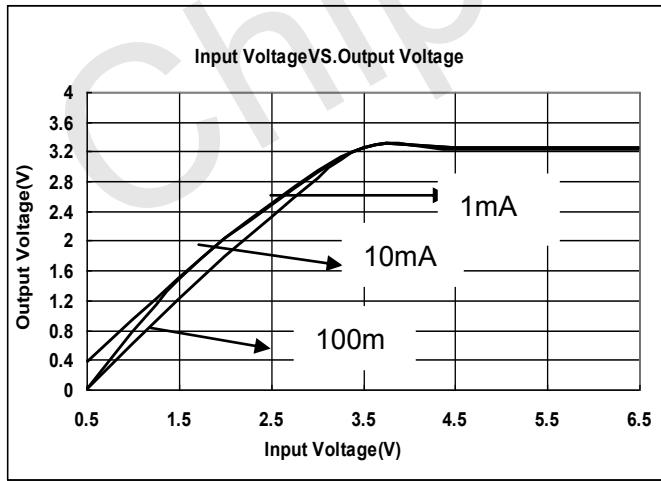
ME6206A28PG



ME6206A30PG



ME6206A33PG





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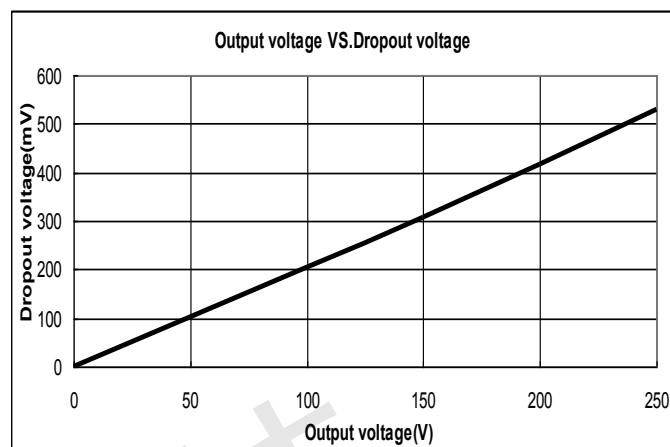
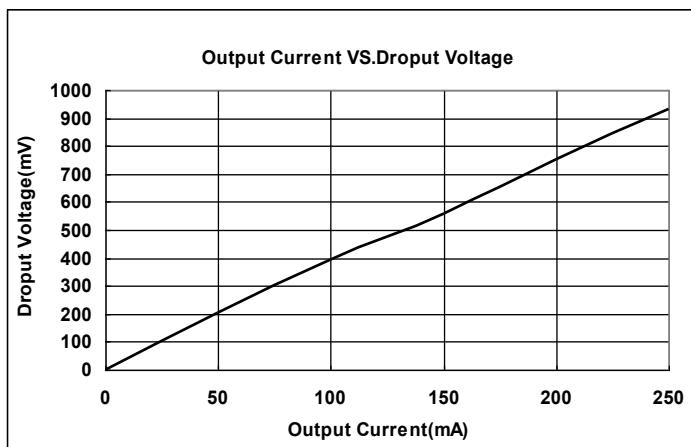


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(3) Output Current VS. Dropout Voltage ( $V_{IN}=V_{out}+1V$ ,  $T_a = 25^{\circ}\text{C}$ )

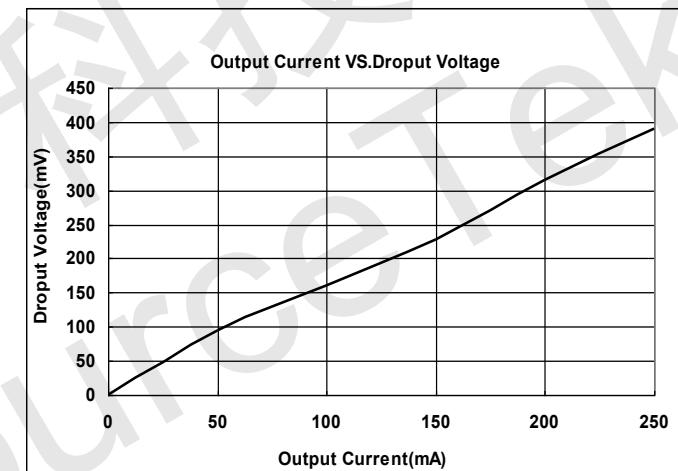
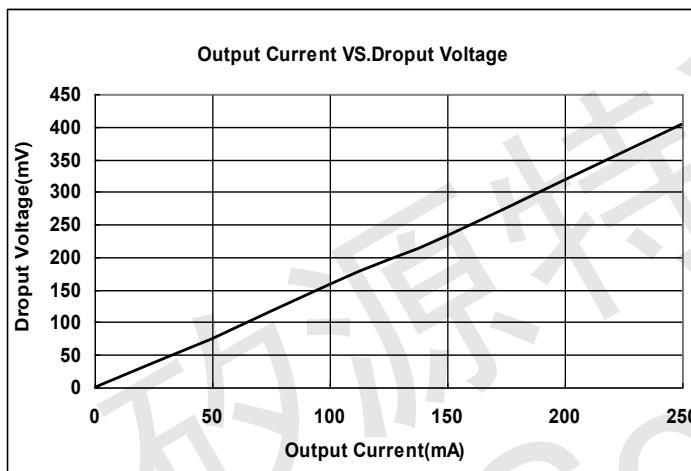
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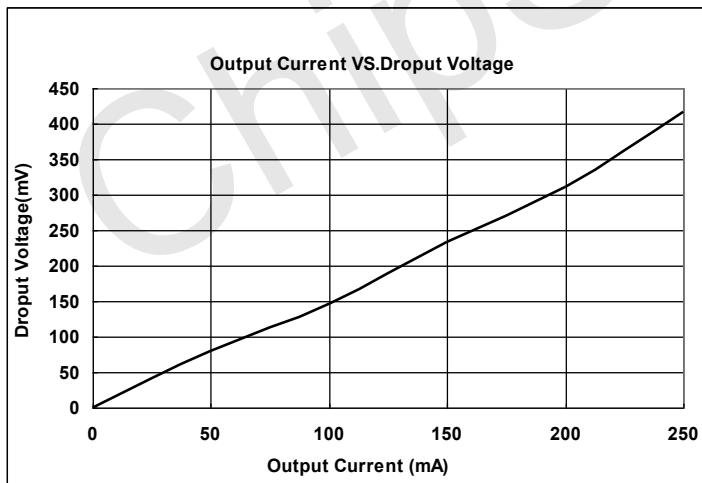


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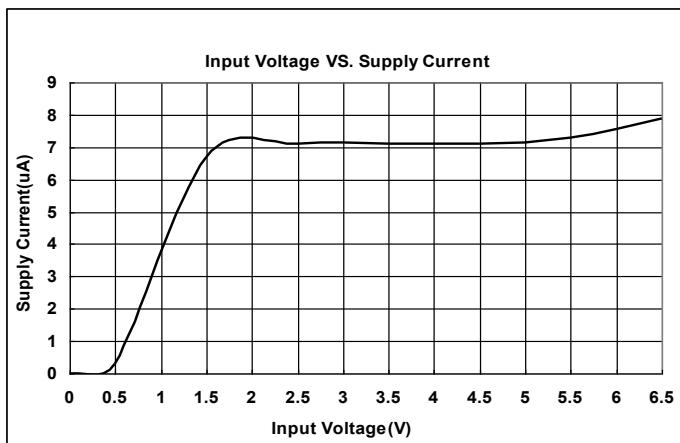
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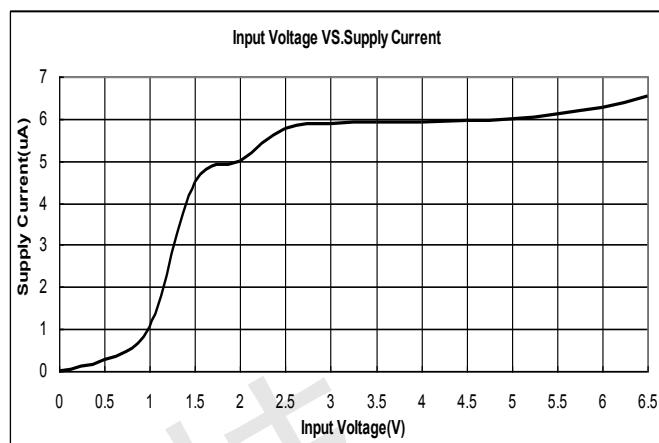
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(4) Input Voltage VS. Supply Current ( $T_a = 25^{\circ}\text{C}$ )

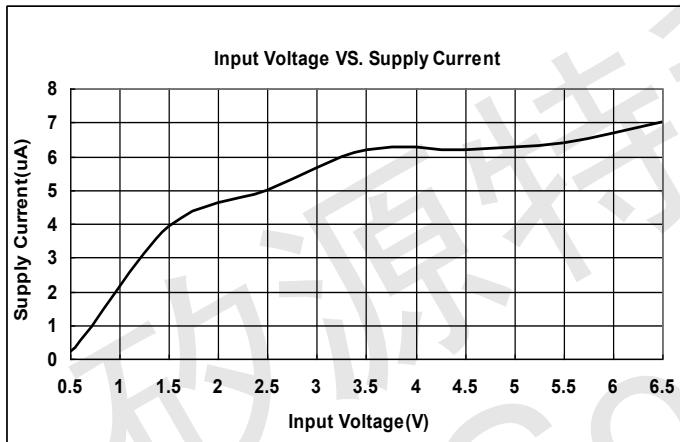
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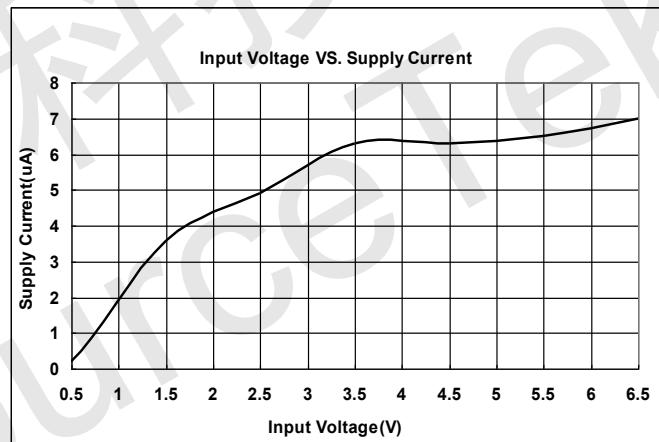
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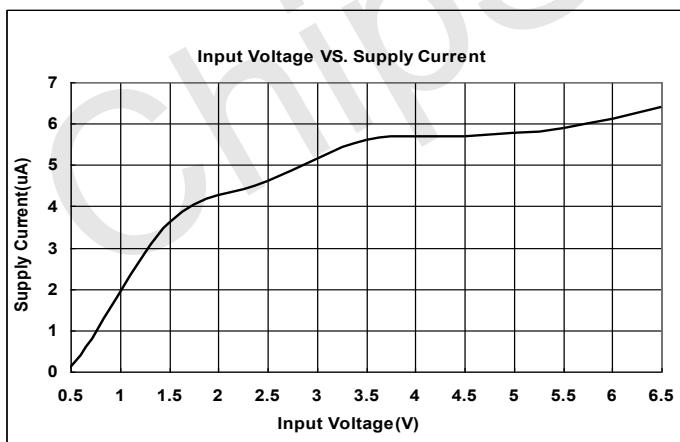
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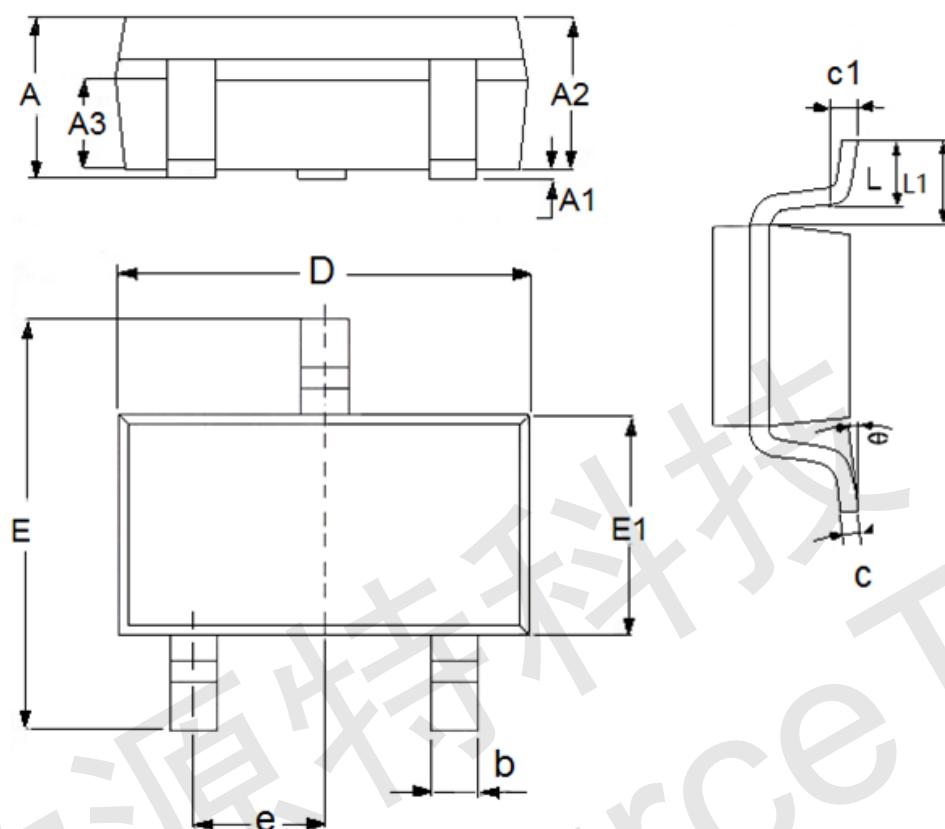
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## Packaging Information

- 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) |        |



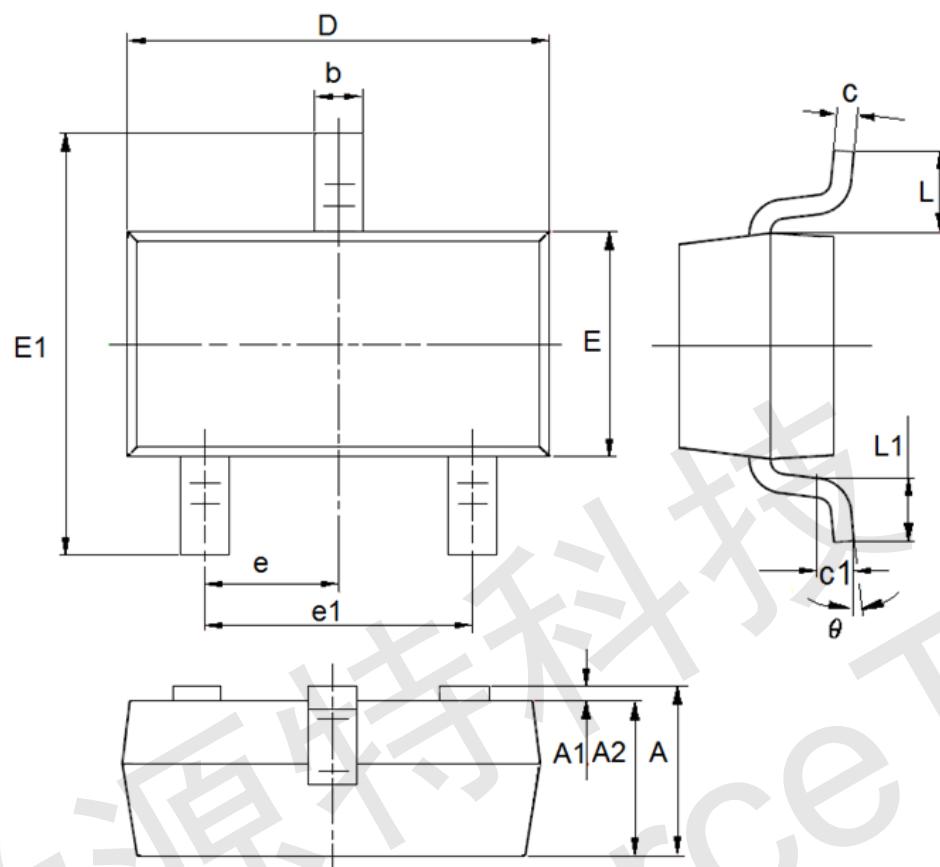
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● SOT23



| 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) |        |



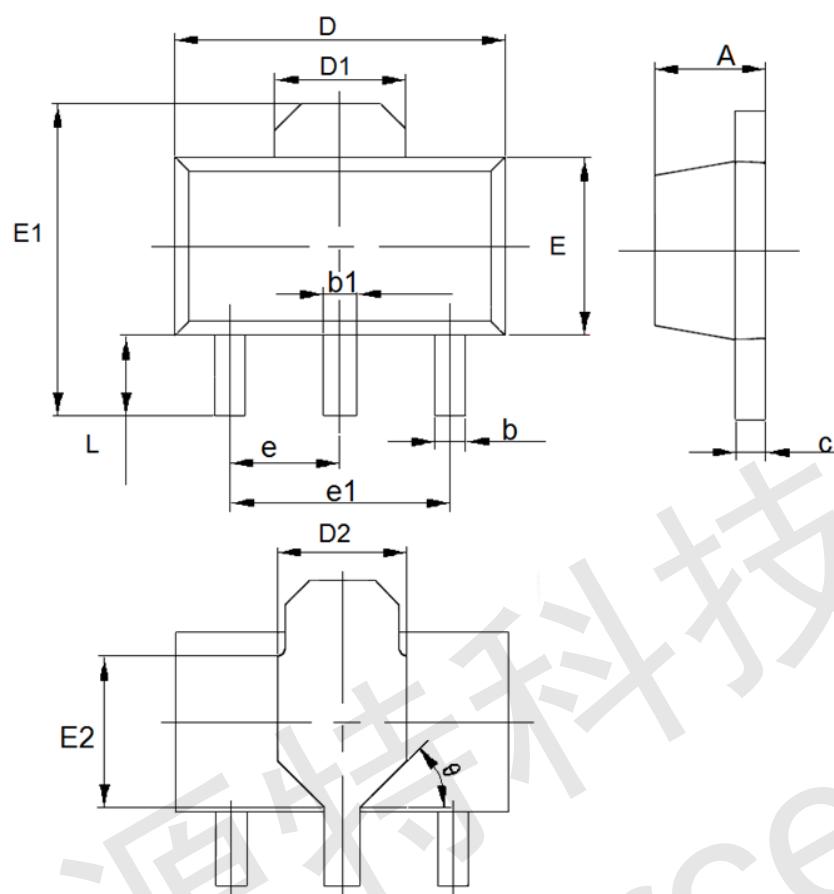
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● SOT89-3



| 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°         |         |

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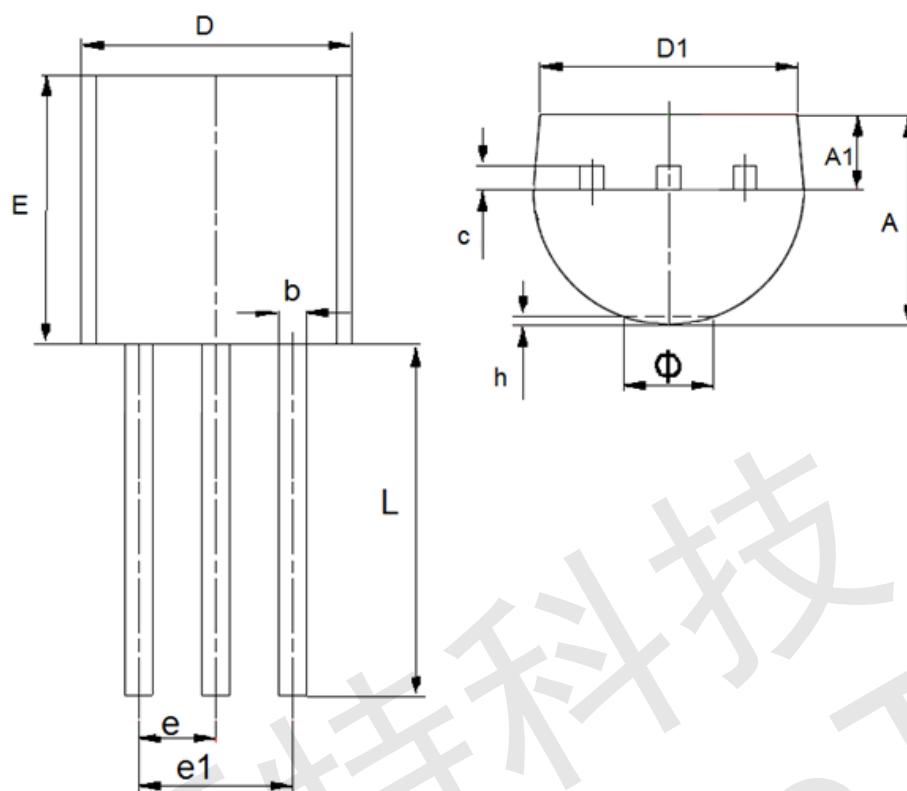
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● TO92



| 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  |

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