

# XC6201

## Series

### Positive Voltage Regulators



3

#### ◆CMOS Low Power Consumption

◆Dropout Voltage : 0.16V @ 100mA,  
0.40V @ 200mA

◆Maximum Output Current : 250mA ( $V_{OUT}=5.0V$ , TYP)

◆Highly Accurate :  $\pm 2\%$

◆Output Voltage Range : 1.3V ~ 6.0V

◆SOT-25 / SOT-89 / TO-92 Package

◆Capacitors can be Tantalum or Ceramic

#### ■General Description

The XC6201 series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS and laser trimming technologies.

The series provides large currents with a significantly small dropout voltage.

The XC6201 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error amplifier. Output voltage is selectable in 0.1V steps between 1.3V ~ 6.0V.

SOT-25 (250mW), SOT-89 (500mW) and TO-92 (300mW) packages are available.

#### ■Applications

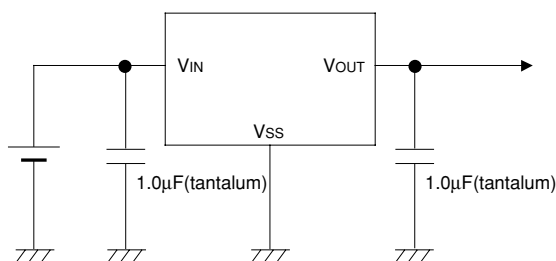
- Mobile phones
- Cordless phones
- Cameras, video recorders
- Portable games
- Portable AV equipment
- Reference voltage
- Battery powered equipment

#### ■Features

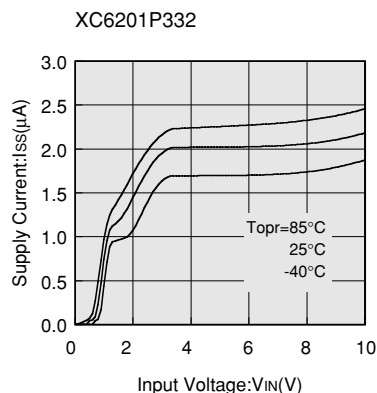
|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Maximum Output Current        | : 250mA (TYP.)                                        |
| Dropout Voltage               | : 0.16V @ 100mA                                       |
| Maximum Operating Voltage     | : 10V                                                 |
| Output Voltage Range          | : 1.3V ~ 6.0V<br>(selectable in 0.1V steps)           |
| Highly Accurate               | : $\pm 2\%$                                           |
| Low Power Consumption         | : TYP 2.0 $\mu A$                                     |
| Operational Temperature Range | : -40°C ~ 85°C                                        |
| Ultra Small Packages          | : SOT-25 (250mW),<br>SOT-89 (500mW),<br>TO-92 (300mW) |

Capacitors can be Tantalum or Ceramic

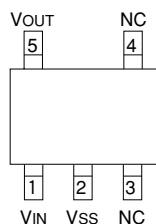
#### ■Typical Application Circuit



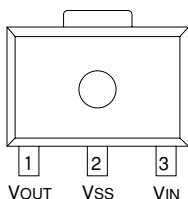
#### ■Typical Performance Characteristic



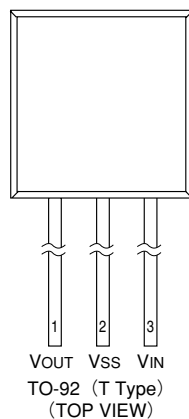
Pin Configuration



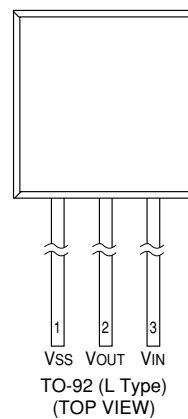
SOT-25  
(TOP VIEW)



SOT-89  
(TOP VIEW)



TO-92 (T Type)  
(TOP VIEW)



TO-92 (L Type)  
(TOP VIEW)

Pin Assignment

| PIN NUMBER |                  |           | PIN NAME | FUNCTION      |
|------------|------------------|-----------|----------|---------------|
| SOT-25     | SOT-89/TO-92 (T) | TO-92 (L) |          |               |
| 5          | 1                | 2         | VOUT     | Output        |
| 2          | 2                | 1         | VSS      | Ground        |
| 1          | 3                | 3         | VIN      | Power Input   |
| 3          | —                | —         | (NC)     | No Connection |
| 4          | —                | —         | (NC)     | No Connection |

Product Classification

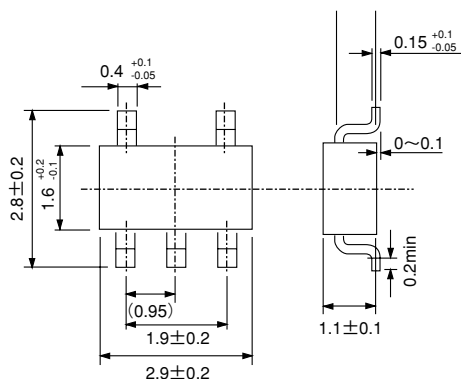
Ordering Information

X C 6 2 0 1 P ③④⑤⑥  
          ↑  ↑  
          ①  ②

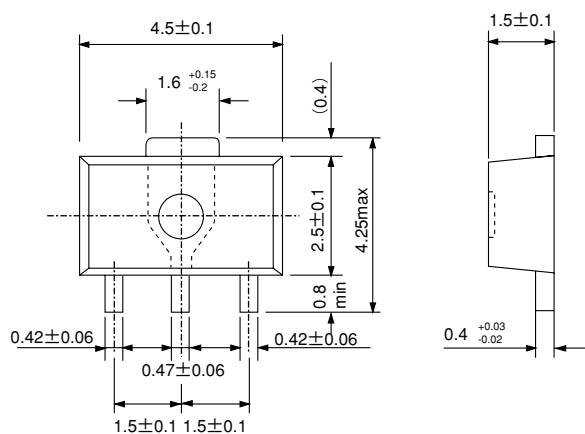
| DESIGNATOR | SYMBOL      | DESCRIPTION                                   | DESIGNATOR | SYMBOL | DESCRIPTION                                           |
|------------|-------------|-----------------------------------------------|------------|--------|-------------------------------------------------------|
| ①          | 01          | Indicates the product number                  | ④          | 1/2    | Output Voltage Accuracy<br>e.g.1 : ±1.0%<br>2 : ±2.0% |
| ②          | P           | Type of regulator 3-pin                       |            | ⑤      | M                                                     |
| ③          | 13~60       | Output Voltage<br>e.g. 30 : 3.0V<br>50 : 5.0V | P          |        | : SOT-89                                              |
|            |             |                                               | T          |        | : TO-92 (Standard)                                    |
|            |             |                                               | L          |        | : TO-92 (Custom pin configuration)                    |
|            |             |                                               | ⑥          | R      | Embossed Tape:Standard Feed                           |
|            |             |                                               |            | L      | Embossed Tape:Reverse Feed                            |
|            |             |                                               |            | H      | Paper Type (TO-92)                                    |
| B          | Bag (TO-92) |                                               |            |        |                                                       |

## ■ Packaging Information

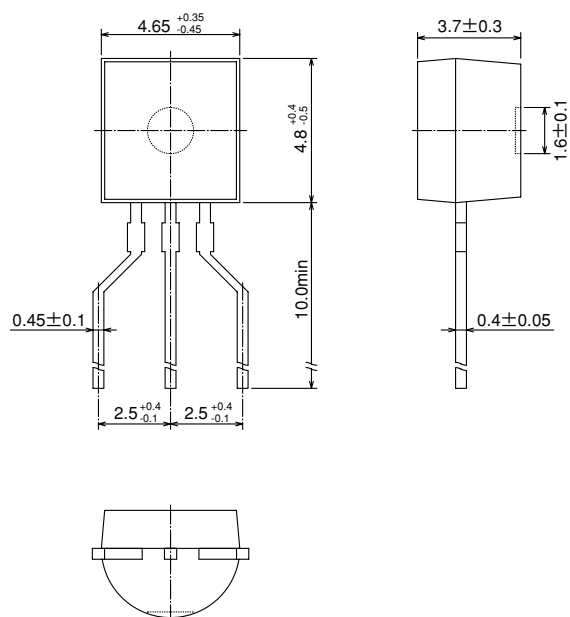
### ● SOT-25



### ● SOT-89



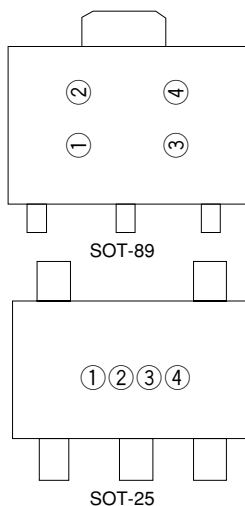
## ●TO-92



3

## ■ Marking

### ● SOT-89, SOT-25



① Represents the product name

| SYMBOL | PRODUCT NAME |
|--------|--------------|
| 1      | XC6201PXXXXX |

② Represents the type of regulator

| VOLTAGE (V) | 0.1~3.0 | 3.1~6.0 | 6.1~9.0 |
|-------------|---------|---------|---------|
| SYMBOL      | 5       | 6       | 7       |

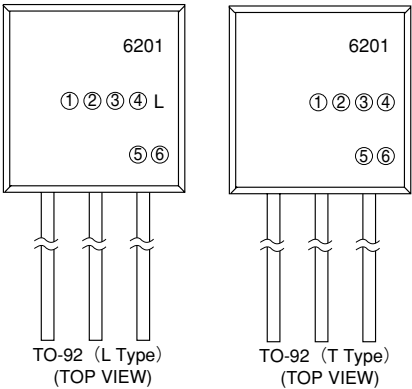
③ Represents the Output Voltage

| SYMBOL | OUTPUT VOLTAGE (V) |     |   | SYMBOL | OUTPUT VOLTAGE (V) |     |   |
|--------|--------------------|-----|---|--------|--------------------|-----|---|
| 0      | —                  | 3.1 | — | F      | 1.6                | 4.6 | — |
| 1      | —                  | 3.2 | — | H      | 1.7                | 4.7 | — |
| 2      | —                  | 3.3 | — | K      | 1.8                | 4.8 | — |
| 3      | —                  | 3.4 | — | L      | 1.9                | 4.9 | — |
| 4      | —                  | 3.5 | — | M      | 2.0                | 5.0 | — |
| 5      | —                  | 3.6 | — | N      | 2.1                | 5.1 | — |
| 6      | —                  | 3.7 | — | P      | 2.2                | 5.2 | — |
| 7      | —                  | 3.8 | — | R      | 2.3                | 5.3 | — |
| 8      | —                  | 3.9 | — | S      | 2.4                | 5.4 | — |
| 9      | —                  | 4.0 | — | T      | 2.5                | 5.5 | — |
| A      | —                  | 4.1 | — | U      | 2.6                | 5.6 | — |
| B      | —                  | 4.2 | — | V      | 2.7                | 5.7 | — |
| C      | 1.3                | 4.3 | — | X      | 2.8                | 5.8 | — |
| D      | 1.4                | 4.4 | — | Y      | 2.9                | 5.9 | — |
| E      | 1.5                | 4.5 | — | Z      | 3.0                | 6.0 | — |

④ Represents the assembly lot no.

0~9, A~Z repeated (G, I, J, O, Q, W excepted)

●TO-92



① Represents the type of regulator

| DESIGNATOR | PRODUCT NAME |
|------------|--------------|
| P          | XC6201P***** |
| T          | XC6201T***** |

②③ Represents the Output Voltage

| DESIGNATOR |   | VOLTAGE (V) | PRODUCT NAME |
|------------|---|-------------|--------------|
| ②          | ③ |             |              |
| 3          | 3 | 3.3         | XC6201*33*** |
| 5          | 0 | 5.0         | XC6201*50*** |

④ Represents the Detect Voltage Accuracy

| DESIGNATOR | DETECT VOLTAGE ACCURACY | PRODUCT NAME |
|------------|-------------------------|--------------|
| 1          | within $\pm 1\%$        | XC6201P**1** |
| 2          | within $\pm 2\%$        | XC6201P**2** |

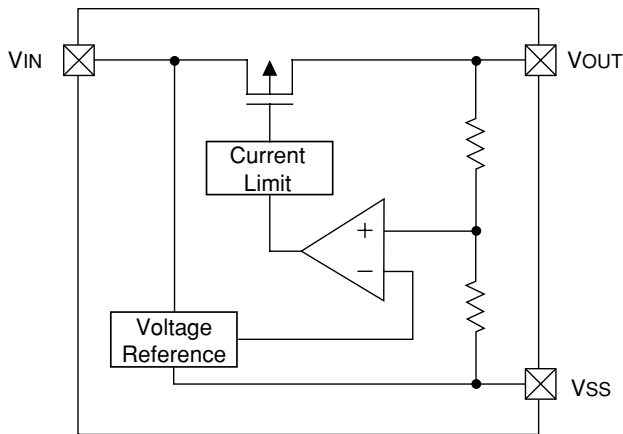
⑤ Represents a least significant digit of the produced year

| DESIGNATOR | Produced year |
|------------|---------------|
| 0          | 2000          |
| 1          | 2001          |

⑥ Denotes the production lot number  
0 to 9, A to Z repeated(G.I.J.O.Q.W excepted)

Note : Character inversion is not used

■Block Diagram



## ■ Absolute Maximum Ratings

Ta=25°C

| PARAMETER         |        | SYMBOL | RATINGS         | UNITS |
|-------------------|--------|--------|-----------------|-------|
| Input Voltage     |        | VIN    | 12              | V     |
| Output Current    |        | IOUT   | 500             | mA    |
| Output Voltage    |        | VOUT   | VSS-0.3~VIN+0.3 | V     |
| Power Dissipation | SOT-25 | Pd     | 250             | mW    |
|                   | SOT-89 |        | 500             |       |
|                   | TO-92  |        | 300             |       |
| Operating Temp.   |        | Topr   | -40~+85         | °C    |
| Storage Temp.     |        | Tstg   | -55~+125        | °C    |

3

## ■ Electrical Characteristics

XC6201P132 VOUT(T)=1.3V (Note 1)

Ta=25°C

| PARAMETER                                  | SYMBOL                                       | CONDITIONS                   | MIN   | TYP   | MAX   | UNITS  | CIRCUIT |
|--------------------------------------------|----------------------------------------------|------------------------------|-------|-------|-------|--------|---------|
| Output Voltage                             | VOUT(E) (Note2)                              | VIN=2.3V<br>IOUT=10mA        | 1.274 | 1.300 | 1.326 | V      | 2       |
| Maximum Output Current                     | IOUTmax                                      | VIN=2.3V<br>VOUT(E)≥1.17V    | 60    |       |       | mA     | 2       |
| Load Regulation                            | ΔVOUT                                        | VIN=2.3V<br>1mA≤IOUT≤30mA    |       | 10    | 30    | mV     | 2       |
| Dropout Voltage (Note 3)                   | Vdif1                                        | IOUT=30mA                    |       | 200   | 600   | mV     | 2       |
|                                            | Vdif2                                        | IOUT=60mA                    |       | 500   | 810   |        |         |
| Supply Current                             | ISS                                          | VIN=2.3V                     |       | 3.0   | 5.0   | μA     | 1       |
| Line Regulation                            | $\frac{\Delta VOUT}{\Delta VIN \cdot VOUT}$  | IOUT=10mA<br>2.3V≤VIN≤10.0V  |       | 0.2   | 0.3   | %/V    | 2       |
| Input Voltage                              | VIN                                          |                              | 1.8   |       | 10    | V      | —       |
| Output Voltage Temperature Characteristics | $\frac{\Delta VOUT}{\Delta Topr \cdot VOUT}$ | IOUT=40mA<br>-40°C≤Topr≤85°C |       | ±100  |       | ppm/°C | 2       |

XC6201P182  $V_{OUT}(T)=1.8V$  (Note 1)

$T_a=25^{\circ}C$

| PARAMETER                                     | SYMBOL                                                | CONDITIONS                                                     | MIN   | TYP       | MAX   | UNITS               | CIRCUIT |
|-----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|-------|-----------|-------|---------------------|---------|
| Output Voltage                                | $V_{OUT}(E)$ (Note 2)                                 | $V_{IN}=2.8V$<br>$I_{OUT}=40mA$                                | 1.764 | 1.800     | 1.836 | V                   | 2       |
| Maximum Output Current                        | $I_{OUTmax}$                                          | $V_{IN}=2.8V$<br>$V_{OUT}(E) \geq 1.62V$                       | 80    |           |       | mA                  | 2       |
| Load Regulation                               | $\Delta V_{OUT}$                                      | $V_{IN}=2.8V$<br>$1mA \leq I_{OUT} \leq 40mA$                  |       | 10        | 30    | mV                  | 2       |
| Dropout Voltage (Note 3)                      | $V_{dif1}$                                            | $I_{OUT}=40mA$                                                 |       | 200       | 370   | mV                  | 2       |
|                                               | $V_{dif2}$                                            | $I_{OUT}=80mA$                                                 |       | 450       | 710   |                     |         |
| Supply Current                                | $I_{SS}$                                              | $V_{IN}=2.8V$                                                  |       | 3.0       | 5.0   | $\mu A$             | 1       |
| Line Regulation                               | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$  | $I_{OUT}=40mA$<br>$2.8V \leq V_{IN} \leq 10.0V$                |       | 0.2       | 0.3   | %/V                 | 2       |
| Input Voltage                                 | $V_{IN}$                                              |                                                                | 1.8   |           | 10    | V                   | —       |
| Output Voltage<br>Temperature Characteristics | $\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$ | $I_{OUT}=40mA$<br>$-40^{\circ}C \leq T_{opr} \leq 85^{\circ}C$ |       | $\pm 100$ |       | ppm/<br>$^{\circ}C$ | 2       |

XC6201P272  $V_{OUT}(T)=2.7V$  (Note 1)

$T_a=25^{\circ}C$

| PARAMETER                                     | SYMBOL                                                | CONDITIONS                                                     | MIN   | TYP       | MAX   | UNITS               | CIRCUIT |
|-----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|-------|-----------|-------|---------------------|---------|
| Output Voltage                                | $V_{OUT}(E)$ (Note 2)                                 | $V_{IN}=3.7V$<br>$I_{OUT}=40mA$                                | 2.646 | 2.700     | 2.754 | V                   | 2       |
| Maximum Output Current                        | $I_{OUTmax}$                                          | $V_{IN}=3.7V$<br>$V_{OUT}(E) \geq 2.43V$                       | 100   |           |       | mA                  | 2       |
| Load Regulation                               | $\Delta V_{OUT}$                                      | $V_{IN}=3.7V$<br>$1mA \leq I_{OUT} \leq 60mA$                  |       | 15        | 40    | mV                  | 2       |
| Dropout Voltage (Note 3)                      | $V_{dif1}$                                            | $I_{OUT}=60mA$                                                 |       | 200       | 370   | mV                  | 2       |
|                                               | $V_{dif2}$                                            | $I_{OUT}=120mA$                                                |       | 450       | 710   |                     |         |
| Supply Current                                | $I_{SS}$                                              | $V_{IN}=3.7V$                                                  |       | 2.0       | 5.0   | $\mu A$             | 1       |
| Line Regulation                               | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$  | $I_{OUT}=40mA$<br>$3.7V \leq V_{IN} \leq 10.0V$                |       | 0.2       | 0.3   | %/V                 | 2       |
| Input Voltage                                 | $V_{IN}$                                              |                                                                | 1.8   |           | 10    | V                   | —       |
| Output Voltage<br>Temperature Characteristics | $\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$ | $I_{OUT}=40mA$<br>$-40^{\circ}C \leq T_{opr} \leq 85^{\circ}C$ |       | $\pm 100$ |       | ppm/<br>$^{\circ}C$ | 2       |



**XC6201P332**

$V_{OUT}(T) = 3.3V$  (Note 1)

$T_a = 25^\circ C$

| PARAMETER                                     | SYMBOL                                                | CONDITIONS                                                     | MIN   | TYP       | MAX   | UNITS             | CIRCUIT |
|-----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|-------|-----------|-------|-------------------|---------|
| Output Voltage                                | $V_{OUT}(E)$ (Note 2)                                 | $V_{IN} = 4.3V$<br>$I_{OUT} = 40mA$                            | 3.234 | 3.300     | 3.366 | V                 | 2       |
| Maximum Output Current                        | $I_{OUTmax}$                                          | $V_{IN} = 4.3V$<br>$V_{OUT}(E) \geq 2.97V$                     | 150   |           |       | mA                | 2       |
| Load Regulation                               | $\Delta V_{OUT}$                                      | $V_{IN} = 4.3V$<br>$1mA \leq I_{OUT} \leq 80mA$                |       | 20        | 50    | mV                | 2       |
| Dropout Voltage (Note 3)                      | $V_{dif1}$                                            | $I_{OUT} = 80mA$                                               |       | 200       | 360   | mV                | 2       |
|                                               | $V_{dif2}$                                            | $I_{OUT} = 160mA$                                              |       | 450       | 700   |                   |         |
| Supply Current                                | $I_{SS}$                                              | $V_{IN} = 4.3V$                                                |       | 2.0       | 5.0   | $\mu A$           | 1       |
| Line Regulation                               | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$  | $I_{OUT} = 40mA$<br>$4.3V \leq V_{IN} \leq 10.0V$              |       | 0.2       | 0.3   | %/V               | 2       |
| Input Voltage                                 | $V_{IN}$                                              |                                                                | 1.8   |           | 10    | V                 | —       |
| Output Voltage<br>Temperature Characteristics | $\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$ | $I_{OUT} = 40mA$<br>$-40^\circ C \leq T_{opr} \leq 85^\circ C$ |       | $\pm 100$ |       | ppm<br>$^\circ C$ | 2       |

**XC6201P502**

$V_{OUT}(T) = 5.0V$  (Note 1)

$T_a = 25^\circ C$

| PARAMETER                                     | SYMBOL                                                | CONDITIONS                                                     | MIN   | TYP       | MAX   | UNITS             | CIRCUIT |
|-----------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|-------|-----------|-------|-------------------|---------|
| Output Voltage                                | $V_{OUT}(E)$ (Note 2)                                 | $V_{IN} = 6.0V$<br>$I_{OUT} = 40mA$                            | 4.900 | 5.000     | 5.100 | V                 | 2       |
| Maximum Output Current                        | $I_{OUTmax}$                                          | $V_{IN} = 6.0V$<br>$V_{OUT}(E) \geq 4.5V$                      | 200   |           |       | mA                | 2       |
| Load Regulation                               | $\Delta V_{OUT}$                                      | $V_{IN} = 6.0V$<br>$1mA \leq I_{OUT} \leq 100mA$               |       | 30        | 70    | mV                | 2       |
| Dropout Voltage (Note 3)                      | $V_{dif1}$                                            | $I_{OUT} = 100mA$                                              |       | 160       | 340   | mV                | 2       |
|                                               | $V_{dif2}$                                            | $I_{OUT} = 200mA$                                              |       | 400       | 600   |                   |         |
| Supply Current                                | $I_{SS}$                                              | $V_{IN} = 6.0V$                                                |       | 2.0       | 6.0   | $\mu A$           | 1       |
| Line Regulation                               | $\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$  | $I_{OUT} = 40mA$<br>$6.0V \leq V_{IN} \leq 10.0V$              |       | 0.2       | 0.3   | %/V               | 2       |
| Input Voltage                                 | $V_{IN}$                                              |                                                                | 1.8   |           | 10    | V                 | —       |
| Output Voltage<br>Temperature Characteristics | $\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$ | $I_{OUT} = 40mA$<br>$-40^\circ C \leq T_{opr} \leq 85^\circ C$ |       | $\pm 100$ |       | ppm<br>$^\circ C$ | 2       |

Note : 1.  $V_{OUT}(T)$  = Specified Output Voltage.

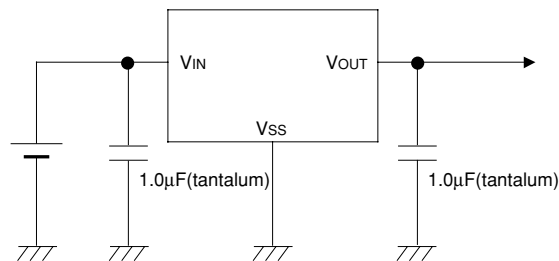
2.  $V_{OUT}(E)$  = Effective Output Voltage (i.e. the output voltage when " $V_{OUT}(T) + 1.0V$ " is provided while maintaining a certain  $I_{OUT}$  value).

3.  $V_{dif} = \{ V_{IN1}^{(Note5)} - V_{OUT1}^{(Note4)} \}$

4.  $V_{OUT1}$  = A voltage equal to 98% of the output voltage when a stabilised ( $V_{OUT}(T) + 1.0V$ ) is input.

5.  $V_{IN1}$  = The input voltage at the time  $V_{OUT1}$  is output (input voltage has been gradually reduced).

Typical Application Circuit

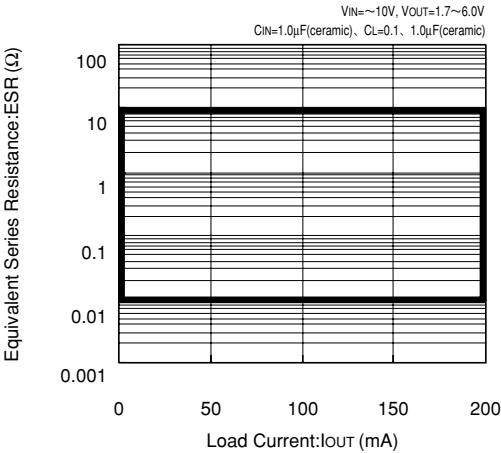


3

< External Capacitors >

The XC6201 requires an output capacitor between the Vout pin and the Vss pin in order to obtain stable output voltages. Where output voltage is greater than 1.7V, the output capacitor (CL) used should be more than 0.1µF whether using tantalum or low ESR (ceramic, for example) capacitors. Where output voltage is between 1.3V ~ 1.6V, it is recommended that only a tantalum capacitor of more than 2.2µF be used on the output in order to stabilize operations.

| Output Voltage | CIN                | CL (tantalum)      | CL (low ESR)       |
|----------------|--------------------|--------------------|--------------------|
| 1.3V~1.6V      | greater than 0.1µF | greater than 2.2µF | —                  |
| 1.7V~6.0V      | greater than 0.1µF | greater than 0.1µF | greater than 0.1µF |



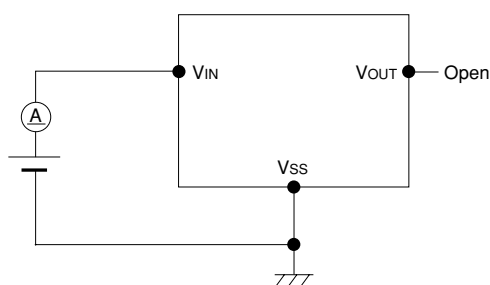
## ■Directions for use

### ●Notes on Use

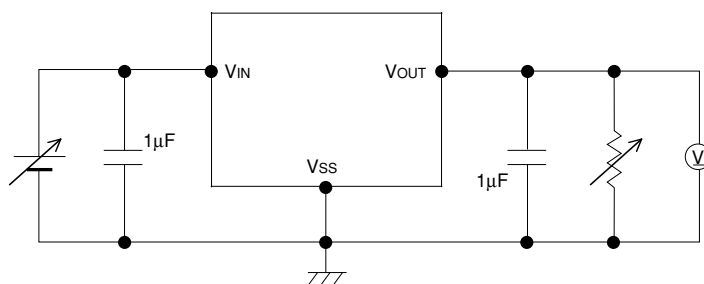
1. Please use this IC within the stipulated absolute maximum ratings as the IC is liable to malfunction outside of such parameters. When the voltage on  $V_{OUT}$  is larger than that of  $V_{IN}$ , for example, when there are two power supply, please insert schottky diode between  $V_{OUT}$  and  $V_{IN}$  not to exceed the rating of  $V_{OUT}$ .
2. There is a possibility that oscillation may occur as a result of the impedance present between the power supply and the IC's input. Where impedance is  $10\Omega$  or more, please use a capacitor ( $C_{IN}$ ) of at least  $1\mu F$ .  
With a large output current, operations can be stabilised by increasing capacitor size ( $C_{IN}$ ). If  $C_{IN}$  is small and capacitor size ( $C_L$ ) is increased, there is a possibility of oscillation due to input impedance.  
In such cases, operations can be stabilised by either increasing the size of  $C_{IN}$  or decreasing the size of  $C_L$ .
3. Please ensure that output current ( $I_{OUT}$ ) is less than  $P_d + (V_{IN} - V_{OUT})$  and does not exceed the stipulated Continuous Total Power Dissipation value ( $P_d$ ) for the package.

## ■Test Circuits

### Measuring Circuit 1 : Supply Current

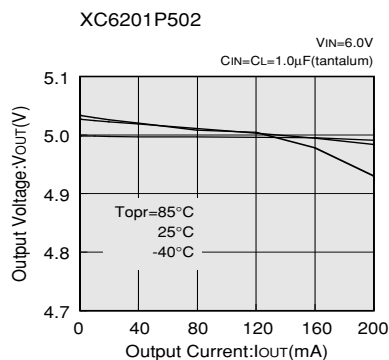
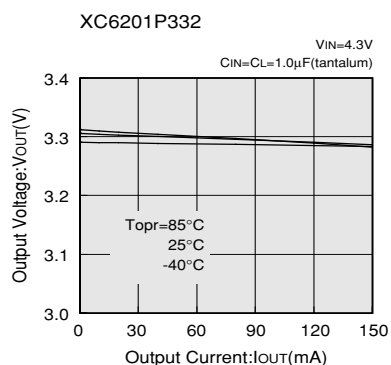
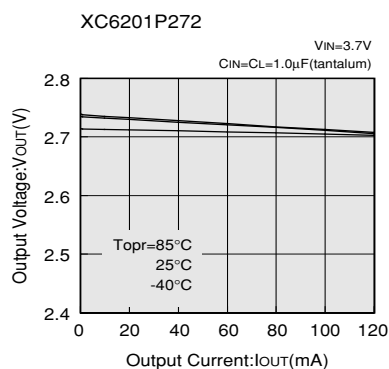
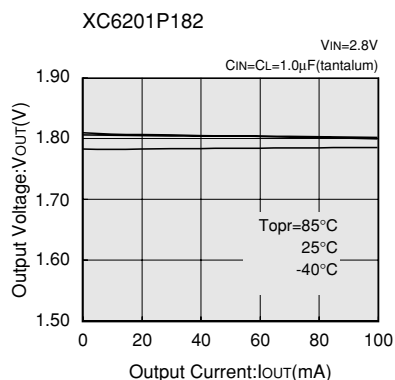
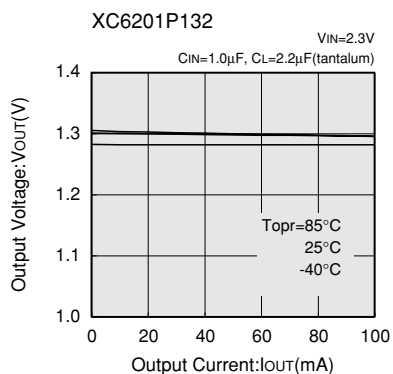


### Measuring Circuit 2 : Output Voltage, Oscillation Check, Line Regulation, Dropout Voltage, Load Regulation

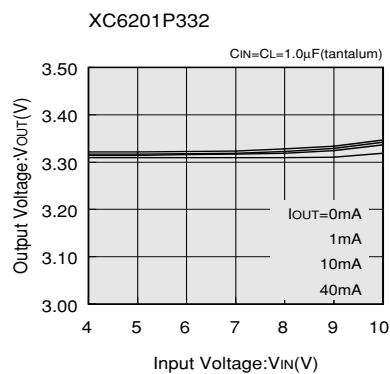
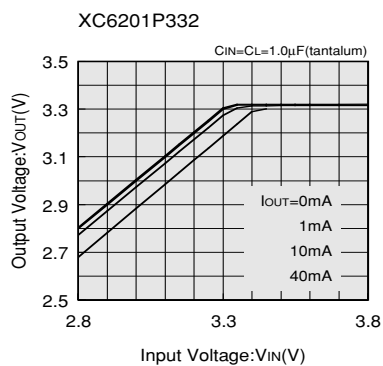
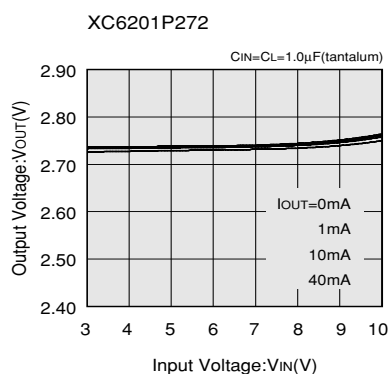
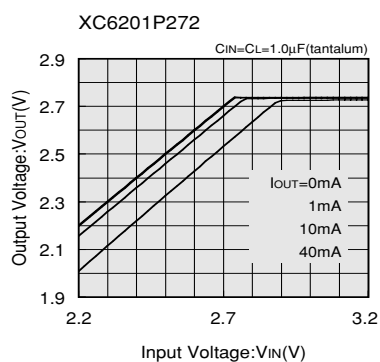
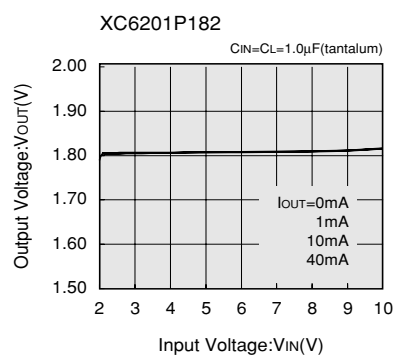
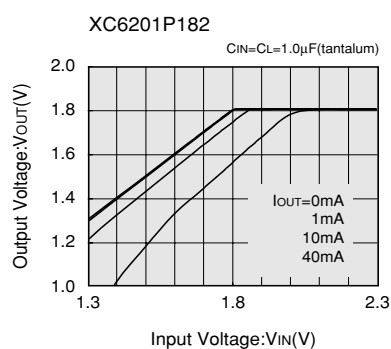
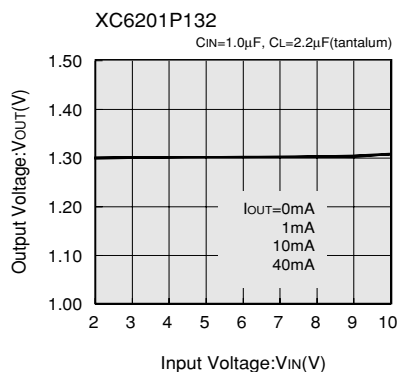
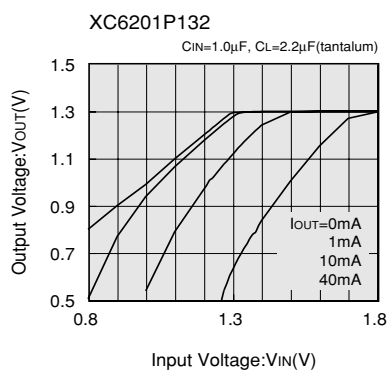


## Typical Performance Characteristics

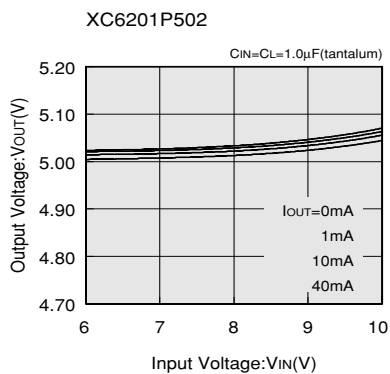
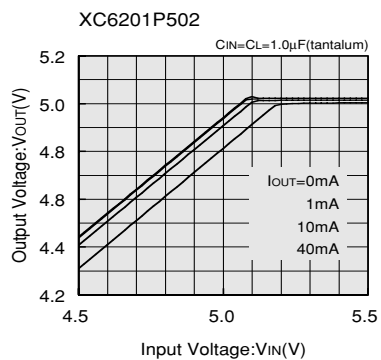
### (1) OUTPUT VOLTAGE vs. OUTPUT CURRENT



## (2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

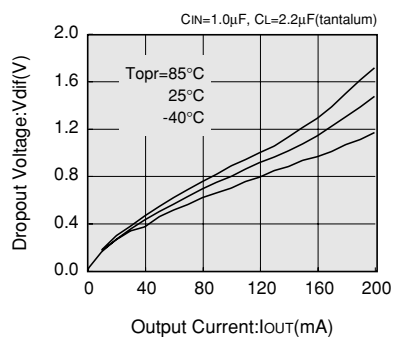


## (2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

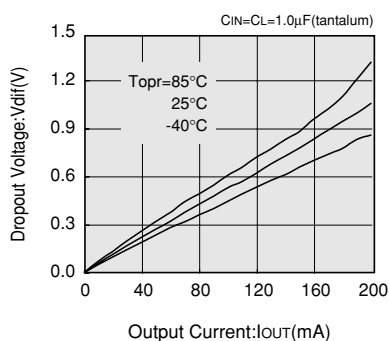


### (3) DROPOUT VOLTAGE vs. OUTPUT CURRENT

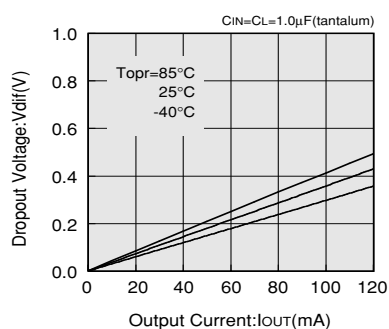
XC6201P132



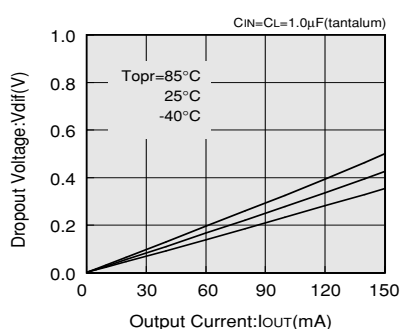
XC6201P182



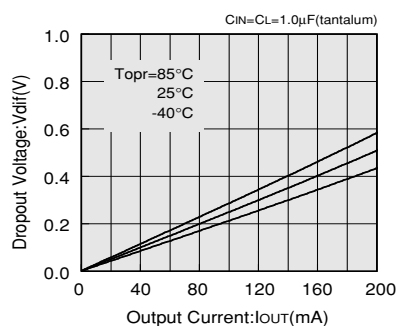
XC6201P272



XC6201P332



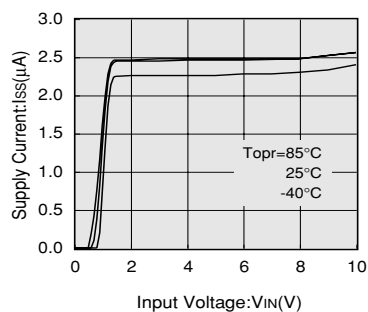
XC6201P502



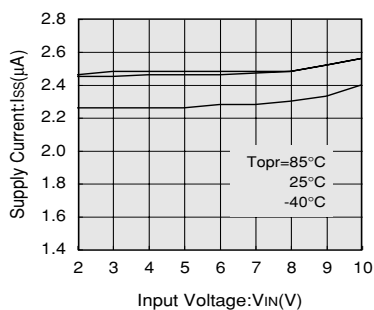
3

## (4) SUPPLY CURRENT vs. INPUT VOLTAGE

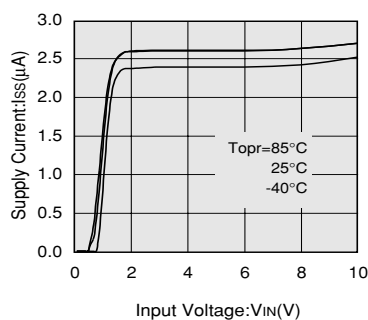
XC6201P132



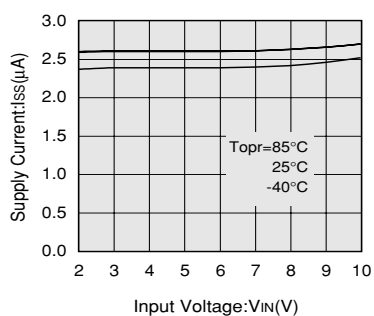
XC6201P132



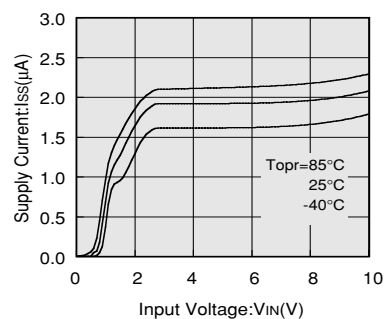
XC6201P182



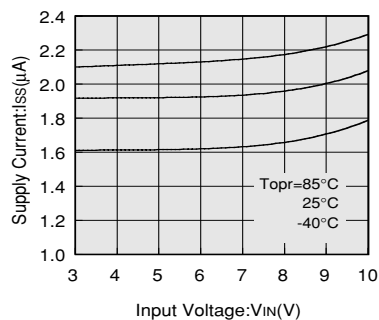
XC6201P182



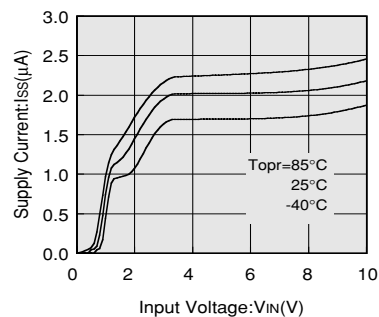
XC6201P272



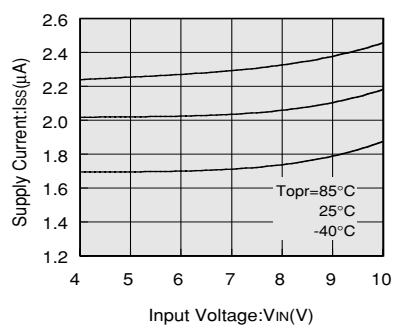
XC6201P272



XC6201P332

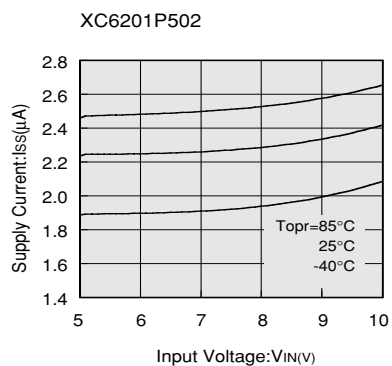
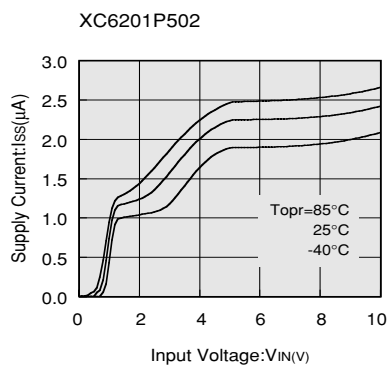


XC6201P332



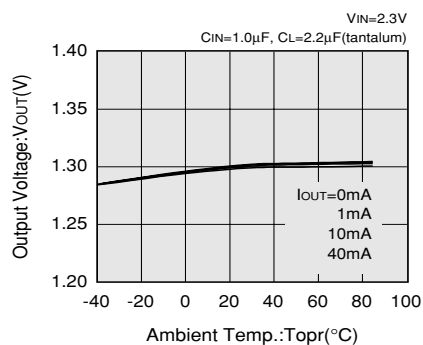


(4) SUPPLY CURRENT vs. INPUT VOLTAGE

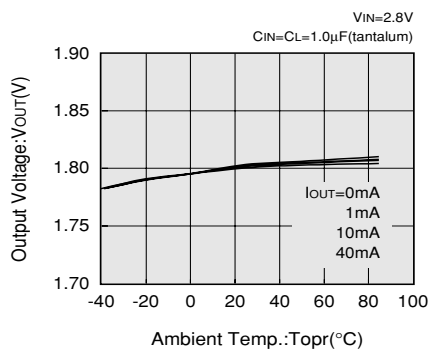


## (5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE

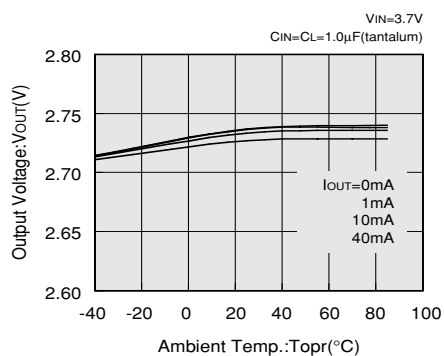
XC6201P132



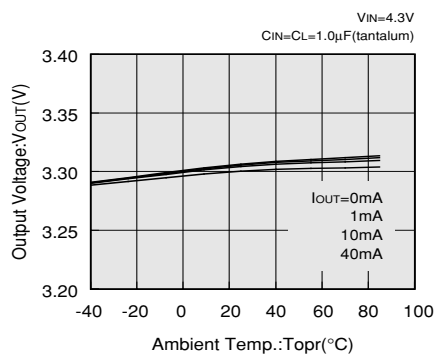
XC6201P182



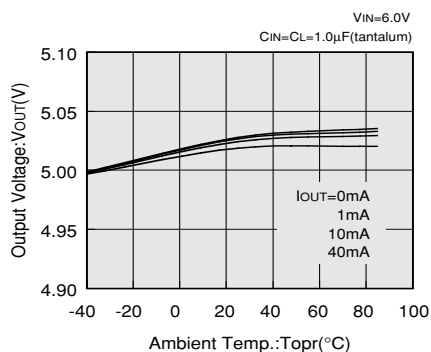
XC6201P272



XC6201P332

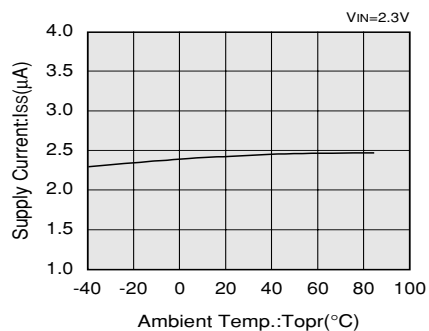


XC6201P502

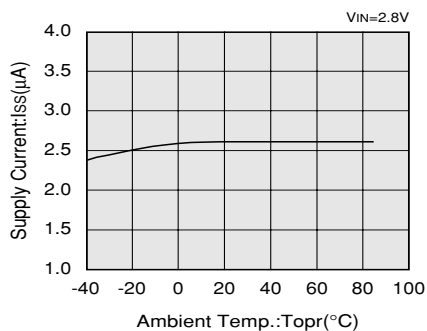


(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

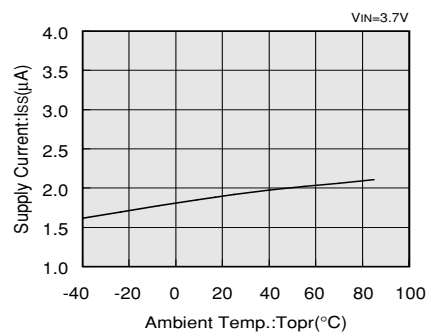
XC6201P132



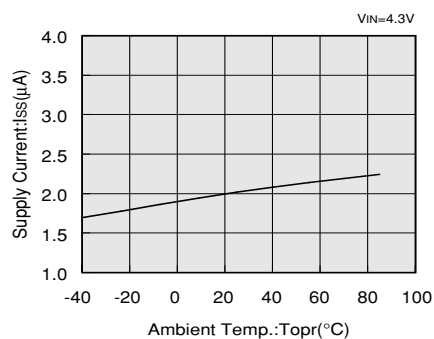
XC6201P182



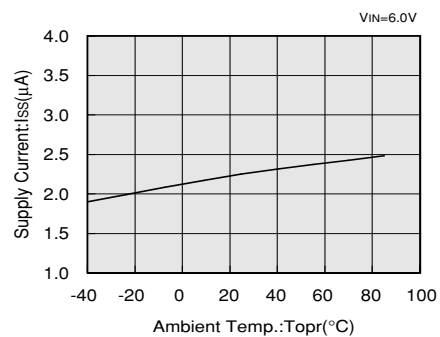
XC6201P272



XC6201P332

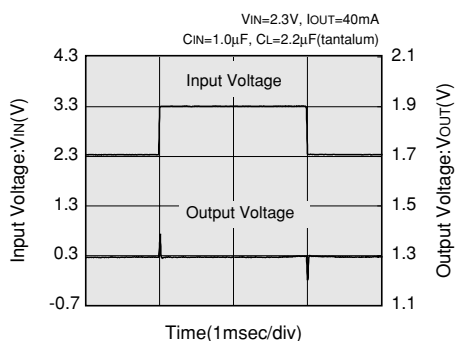


XC6201P502

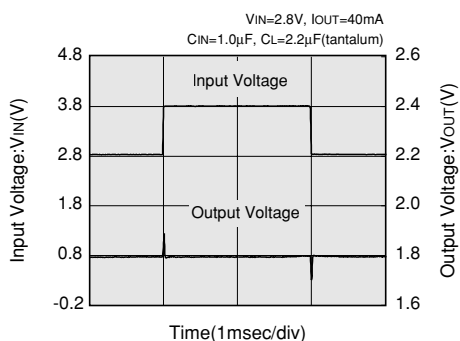


## (7) INPUT TRANSIENT RESPONSE

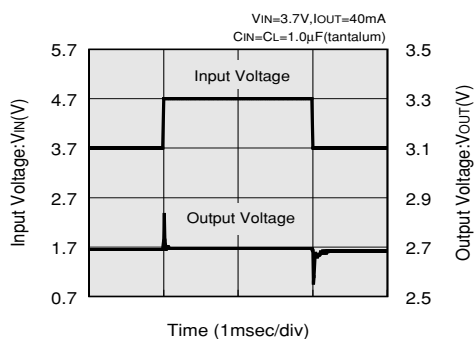
XC6201P132



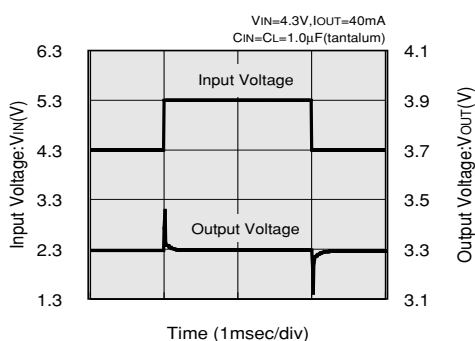
XC6201P182



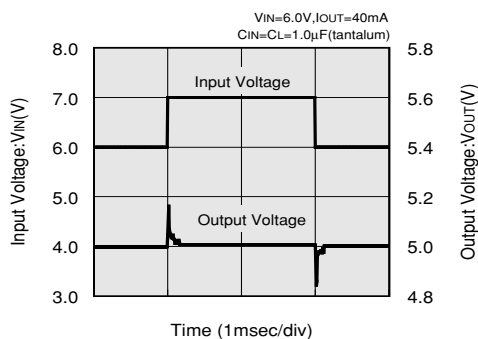
XC6201P272



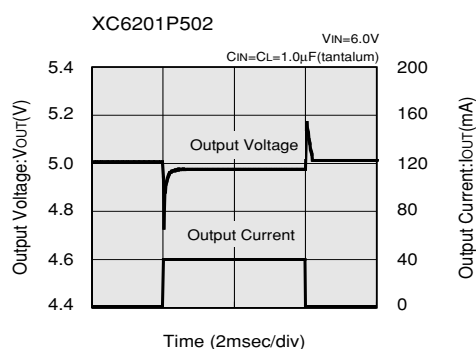
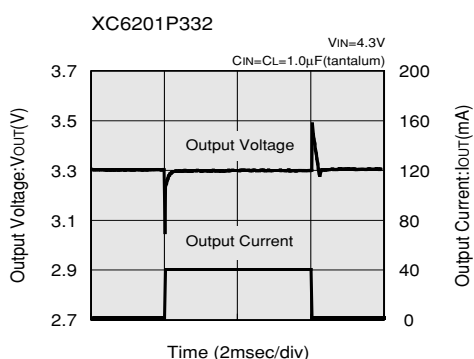
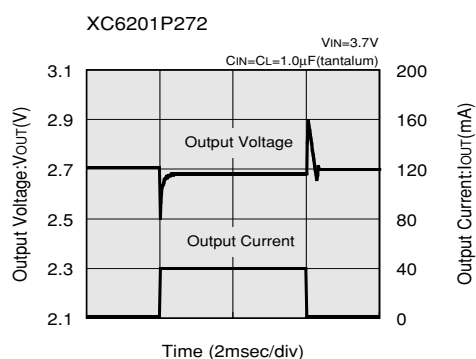
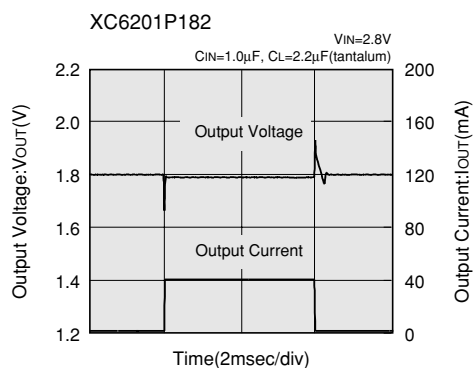
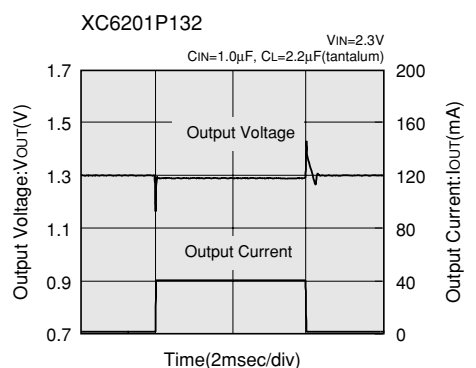
XC6201P332



XC6201P502



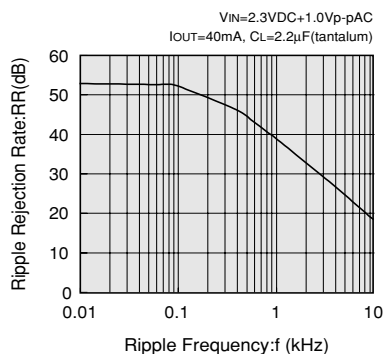
## (8) LOAD TRANSIENT RESPONSE



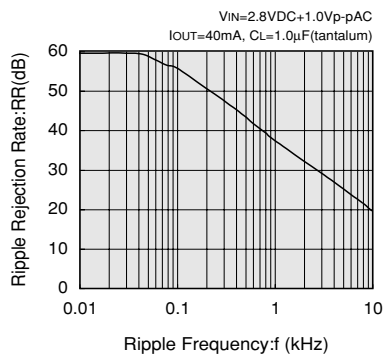
3

## (9) RIPPLE REJECTION RATE

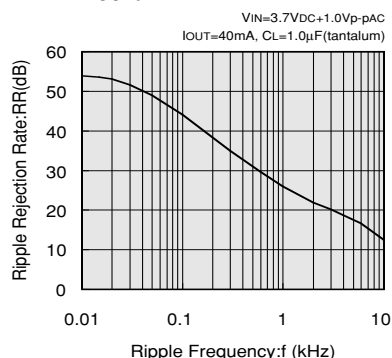
XC6201P132



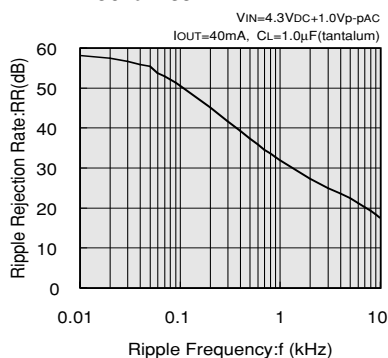
XC6201P182



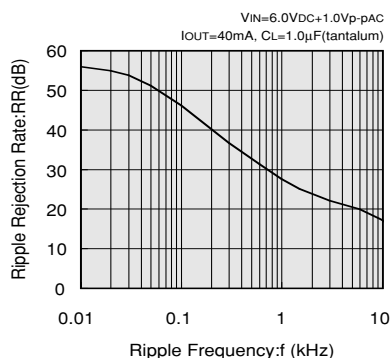
XC6201P272



XC6201P332



XC6201P502



## (10) OUTPUT NOISE DENSITY

XC6201P302

