



**THE DATASHEET OF  
XC6201P202MR**



## Positive Voltage Regulators

### ■ 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, SOT-89 and USP-6B packages are available.

### ■ APPLICATIONS

- Smart phones / Mobile phones
- Portable game consoles
- Digital still cameras / Camcorders
- Digital audio equipment
- Reference voltage sources
- Multi-function power supplies

### ■ FEATURES

<b>Maximum Output Current</b>	: 250mA (TYP.)
<b>Dropout Voltage</b>	: 0.16V @ 100mA : 0.40V @ 200mA
<b>Maximum Operating Voltage</b>	: 10V
<b>Output Voltage Range</b>	: 1.3V ~ 6.0V (0.1V increments)
<b>Fixed Voltage Accuracy</b>	: $\pm 1\%$ ( $V_{OUT(T)} \geq 2.0V$ ) : $\pm 2\%$
<b>Low Power Consumption</b>	: 2.0 $\mu$ A (TYP.)
<b>Operating Ambient Temperature</b>	: -40°C ~ 85°C
<b>Packages</b>	: SOT-25, SOT-89 USP-6B
<b>Environmentally Friendly</b>	: EU RoHS Compliant, Pb Free
<b>Tantalum or Ceramic Capacitor compatible</b>	

### ■ TYPICAL APPLICATION CIRCUIT



### ■ TYPICAL PERFORMANCE CHARACTERISTICS

- Supply Current vs. Input Voltage



## ■ BLOCK DIAGRAM



## ■ PRODUCT CLASSIFICATION

### ● Ordering Information

XC6201P ③④⑤⑥⑦-⑧<sup>(\*)</sup>

↑    ↑

①   ②

DESIGNATOR	ITEM	SYMBOL	DESCRIPTION
①	Product Number	01	-
②	Type of Regulator	P	3-pin regulator
③④	Output Voltage	13~60	e.g. 30:3.0V 50:5.0V
⑤	Output Voltage Accuracy	1	±1%
		2	±2%
⑥⑦-⑧	Packages (Order Unit)	MR	SOT-25 (3,000pcs/Reel)
		MR-G	SOT-25 (3,000pcs/Reel)
		PR	SOT-89 (1,000pcs/Reel)
		PR-G	SOT-89 (1,000pcs/Reel)
		DR	USP-6B (3,000pcs/Reel)
		DR-G	USP-6B (3,000pcs/Reel)

<sup>(\*)</sup> The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant.

\* ±1% accuracy can be set at  $V_{OUT(T)} \geq 2.0V$ .

## ■ PIN CONFIGURATION



SOT-25  
(TOP VIEW)



SOT-89  
(TOP VIEW)



\*The dissipation pad for the USP-6B package should be solder-plated in recommended mount pattern and metal masking so as to enhance mounting strength and heat release. If the pad needs to be connected to other pins, it should be connected to the VSS (No.5) pin.

## ■ PIN ASSIGNMENT

PIN NUMBER			PIN NAME	FUNCTION
SOT-25	SOT-89	USP-6B		
5	1	3	V <sub>OUT</sub>	Output
2	2	5	V <sub>SS</sub>	Ground
1	3	1	V <sub>IN</sub>	Power Input
3, 4	—	2,4,6	NC	No Connection

## ■ ABSOLUTE MAXIMUM RATINGS

T<sub>a</sub> = 25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Input Voltage	V <sub>IN</sub>	12.0	V
Output Current	I <sub>OUT</sub>	500	mA
Output Voltage	V <sub>OUT</sub>	V <sub>SS</sub> -0.3~V <sub>IN</sub> +0.3	V
Power Dissipation	SOT-25	P <sub>d</sub>	250
	SOT-89		500
	USP-6B		120
Operating Temperature	T <sub>opr</sub>	-40~+85	°C
Storage Temperature	T <sub>stg</sub>	-55~+125	°C

## ELECTRICAL CHARACTERISTICS

XC6201P132

$V_{OUT(T)}=1.3V$  (\*1)

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

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=2.3V$ $I_{OUT}=10mA$	1.274	1.300	1.326	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=2.3V$ $V_{OUT(E)} \geq 1.17V$	60	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=2.3V$ $1mA \leq I_{OUT} \leq 30mA$	-	10	30	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=30mA$	-	200	600	mV	②
	Vdif2	$I_{OUT}=60mA$	-	500	810		
Supply Current	$I_{SS}$	$V_{IN}=2.3V$	-	2.0	5.0	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT}=10mA$ $2.3V \leq V_{IN} \leq 10.0V$	-	0.2	0.3	%/V	②
Input Voltage	$V_{IN}$		1.8	-	10	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $-40^\circ\text{C} \leq T_{opr} \leq 85^\circ\text{C}$	-	$\pm 100$	-	ppm/ $^\circ\text{C}$	②

XC6201P182

$V_{OUT(T)}=1.8V$  (\*1)

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

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=2.8V$ $I_{OUT}=40mA$	1.764	1.800	1.836	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=2.8V$ $V_{OUT(E)} \geq 1.62V$	80	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=2.8V$ $1mA \leq I_{OUT} \leq 40mA$	-	10	30	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=40mA$	-	200	370	mV	②
	Vdif2	$I_{OUT}=80mA$	-	450	710		
Supply Current	$I_{SS}$	$V_{IN}=2.8V$	-	2.0	5.0	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $2.8V \leq V_{IN} \leq 10.0V$	-	0.2	0.3	%/V	②
Input Voltage	$V_{IN}$		1.8	-	10	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $-40^\circ\text{C} \leq T_{opr} \leq 85^\circ\text{C}$	-	$\pm 100$	-	ppm/ $^\circ\text{C}$	②

XC6201P272

$V_{OUT(T)}=2.7V$  (\*1)

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

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=3.7V$ $I_{OUT}=40mA$	2.646	2.700	2.754	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=3.7V$ $V_{OUT(E)} \geq 2.43V$	100	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=3.7V$ $1mA \leq I_{OUT} \leq 60mA$	-	15	40	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=60mA$	-	200	370	mV	②
	Vdif2	$I_{OUT}=120mA$	-	450	710		
Supply Current	$I_{SS}$	$V_{IN}=3.7V$	-	2.0	5.0	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $3.7V \leq V_{IN} \leq 10.0V$	-	0.2	0.3	%/V	②
Input Voltage	$V_{IN}$		1.8	-	10	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $-40^\circ\text{C} \leq T_{opr} \leq 85^\circ\text{C}$	-	$\pm 100$	-	ppm/ $^\circ\text{C}$	②

## ■ ELECTRICAL CHARACTERISTICS (Continued)

XC6201P332

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

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=4.3V$ $I_{OUT}=40mA$	3.234	3.300	3.366	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=4.3V$ $V_{OUT(E)} \geq 2.97V$	150	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=4.3V$ $1mA \leq I_{OUT} \leq 80mA$	-	20	50	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=80mA$	-	200	360	mV	②
	Vdif2	$I_{OUT}=160mA$	-	450	700		
Supply Current	$I_{SS}$	$V_{IN}=4.3V$	-	2.0	5.0	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $4.3V \leq V_{IN} \leq 10.0V$	-	0.2	0.3	%/V	②
Input Voltage	$V_{IN}$		1.8	-	10	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $-40^\circ C \leq T_{opr} \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②

XC6201P502

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

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=6.0V$ $I_{OUT}=40mA$	4.900	5.000	5.100	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=6.0V$ $V_{OUT(E)} \geq 4.57V$	200	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=6.0V$ $1mA \leq I_{OUT} \leq 100mA$	-	30	70	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=100mA$	-	160	340	mV	②
	Vdif2	$I_{OUT}=200mA$	-	400	600		
Supply Current	$I_{SS}$	$V_{IN}=6.0V$	-	2.0	6.0	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $6.0V \leq V_{IN} \leq 10.0V$	-	0.2	0.3	%/V	②
Input Voltage	$V_{IN}$		1.8	-	10	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot \Delta V_{OUT}}$	$I_{OUT}=40mA$ $-40^\circ C \leq T_{opr} \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②

**NOTE:**

\*1:  $V_{OUT(T)}$  = Nominal 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:  $V_{dif} = (V_{IN1} - V_{OUT1})$

$V_{IN1}$  :An Input Voltage when  $V_{OUT1}$  appears as the input voltage is gradually decreased.

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

## TEST CIRCUITS

Circuit ① : Supply Current



Circuit ② : Output Voltage, Oscillation, Line Regulation, Dropout Voltage, Load Regulation



## OPERATIONAL EXPLANATION



With the XC6201 series regulator, in order to ensure the stabilized output voltage, we suggest that an output capacitor ( $C_L$ ) of  $1 \mu\text{F}$  or more be connected between the output pin ( $V_{OUT}$ ) and the  $V_{SS}$  pin. For using low ESR capacitor (e.g. ceramic capacitors), please make sure that the output voltage is more than 1.7V. When the output voltage is from 1.3V to 1.6V, the output capacitor should be a tantalum capacitor with a capacitance of  $2.2 \mu\text{F}$ . We also suggest an input capacitor ( $C_{IN}$ ) should be connected between the  $V_{IN}$  and the  $V_{SS}$  in order to stabilize input power source.

OUTPUT VOLTAGE	$C_{IN}$	$C_L$ (TANTALUM)	$C_L$ (LOW ESR)
1.3V~1.6V	$\geq 1.0 \mu\text{F}$	$\geq 2.2 \mu\text{F}$	—
1.7V~6.0V	$\geq 1.0 \mu\text{F}$	$\geq 1.0 \mu\text{F}$	$\geq 1.0 \mu\text{F}$



## ■ NOTE ON USE

1. Please use this IC within the stated absolute maximum ratings. The IC is liable to malfunction should the ratings be exceeded. When a voltage higher than the  $V_{IN}$  flows to the  $V_{OUT}$  like when using two power supplies, please connect a Schottky barrier diode between the  $V_{OUT}$  and the  $V_{IN}$  and do not exceed the  $V_{OUT}$  rating.
2. An oscillation may occur by the impedance between a power supply and the input of the IC. Where the impedance is  $10\ \Omega$  or more, please use an input capacitor ( $C_{IN}$ ) of at least  $1\ \mu\text{F}$ . In case of high output current, operation can be stabilized by increasing the input capacitor value. Also an oscillation may occur if the input capacitor value is smaller than the input impedance when the output capacitance ( $C_L$ ) is large. In such cases, operations can be stabilized by either increasing the input capacitor value or reducing the output capacitor value.
3. Please ensure that output current ( $I_{OUT}$ ) is less than  $P_d / (V_{IN} - V_{OUT})$  and do not exceed the rated power dissipation value ( $P_d$ ) of the package.

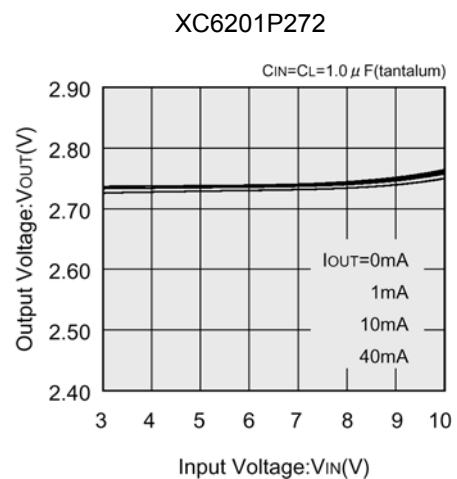
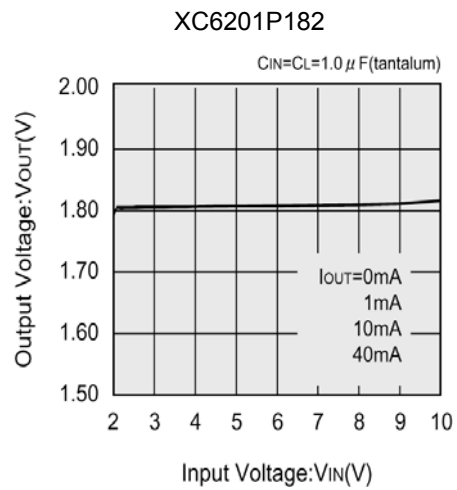
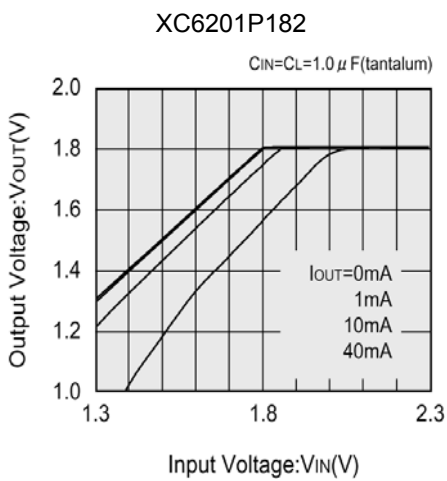
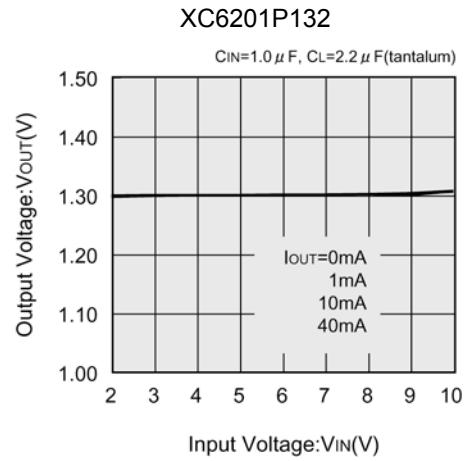
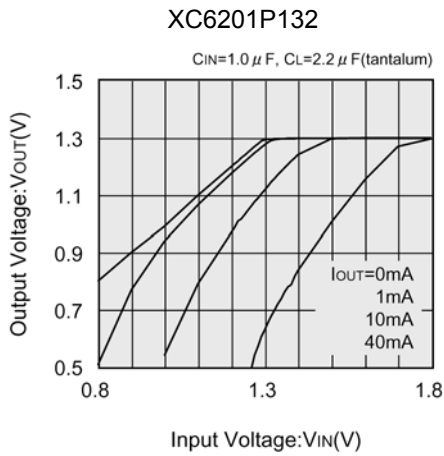
## ■ TYPICAL PERFORMANCE CHARACTERISTICS

### (1) Output Voltage vs. Output Current



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (2) Output Voltage vs. Input Voltage



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (2) Output Voltage vs. Input Voltage (Continued)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (3) Dropout Voltage vs. Output Current



**■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)**

(4) Supply Current vs. Input Voltage



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (4) Supply Current vs. Input Voltage (Continued)



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

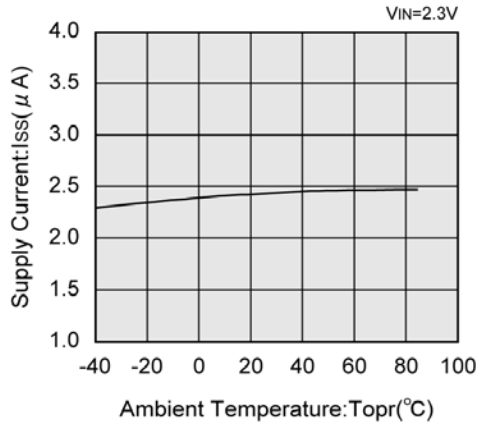
### (5) Output Voltage vs. Ambient Temperature



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (6) Supply Current vs. Ambient Temperature

XC6201P132



XC6201P182



XC6201P272



XC6201P332



XC6201P502



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (7) Input Transient Response

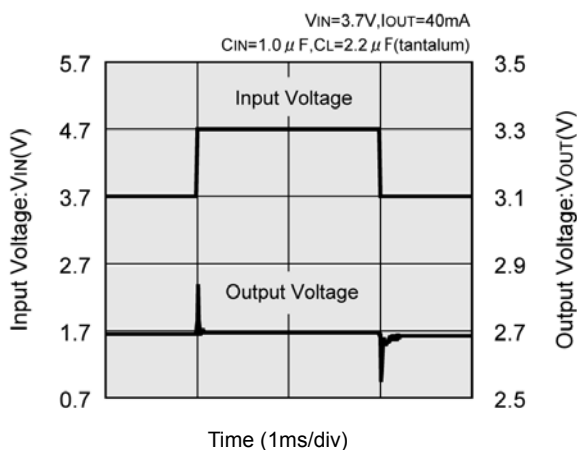
XC6201P132



XC6201P182



XC6201P272



XC6201P332



XC6201P502



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (8) Load Transient Response



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### (9) Ripple Rejection Rate



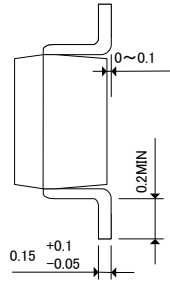
### (10) Output Noise Density



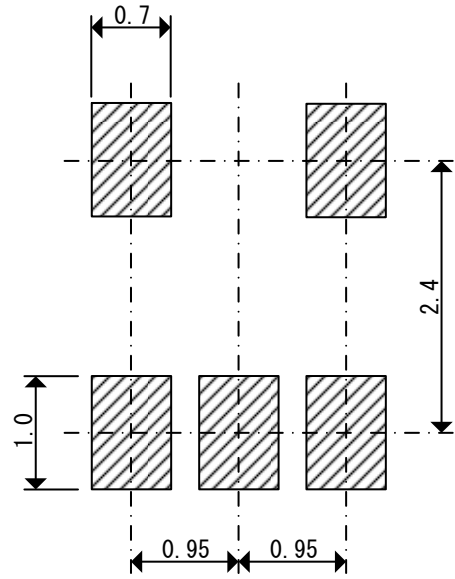
## PACKAGING INFORMATION

### ● SOT-25

Unit : mm

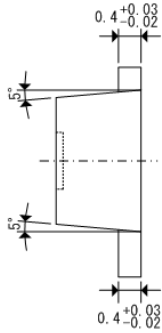
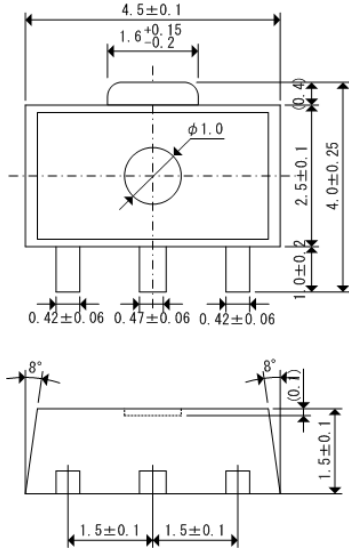


### ● SOT-25 Reference Pattern Layout

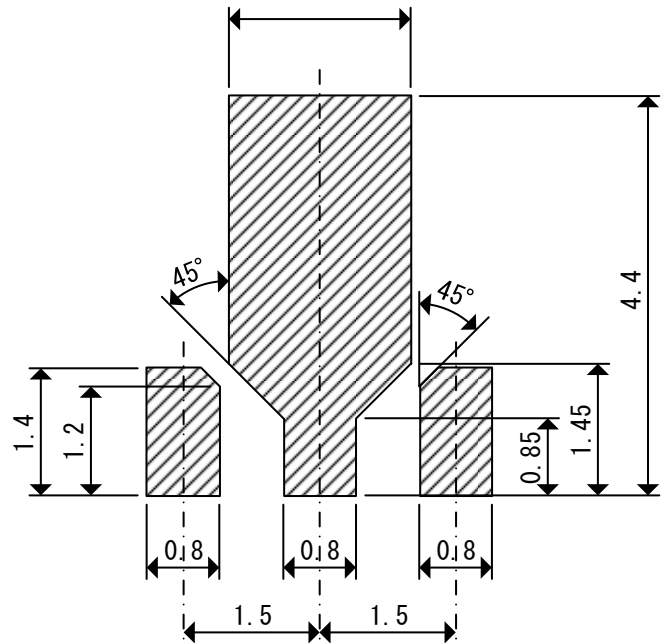


### ● SOT-89

Unit : mm



### ● SOT-89 Reference Pattern Layout



## PACKAGING INFORMATION (Continued)

### ● USP-6B



### ● USP-6B Reference Pattern Layout



### ● USP-6B Reference Metal Mask Design



## ● SOT-25 Power Dissipation

Power dissipation data for the SOT-25 is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as the reference data taken in the following condition.

### 1. Measurement Condition

Condition: Mount on a board

Ambient: Natural convection

Soldering: Lead (Pb) free

Board: Dimensions 40 x 40 mm

(1600 mm<sup>2</sup> in one side)

Copper (Cu) traces occupy 50% of the board area in top and back faces

Package heat-sink is tied to the copper traces (Board of SOT-26 is used.)

Material: Glass Epoxy (FR-4)

Thickness: 1.6mm

Through-hole: 4 x 0.8 Diameter



Evaluation Board (Unit: mm)

### 2. Power Dissipation vs. Ambient Temperature

Board Mount ( $T_j \text{ max} = 125^\circ\text{C}$ )

Ambient Temperature ( $^\circ\text{C}$ )	Power Dissipation $P_d$ (mW)	Thermal Resistance ( $^\circ\text{C}/\text{W}$ )
25	600	166.67
85	240	



● **SOT-89 Power Dissipation**

Power dissipation data for the SOT-89 is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as the reference data taken in the following condition.

1. Measurement Condition

Condition: Mount on a board

Ambient: Natural convection

Soldering: Lead (Pb) free

Board: Dimensions 40 x 40 mm

(1600 mm<sup>2</sup> in one side)

Copper (Cu) traces occupy 50% of the board

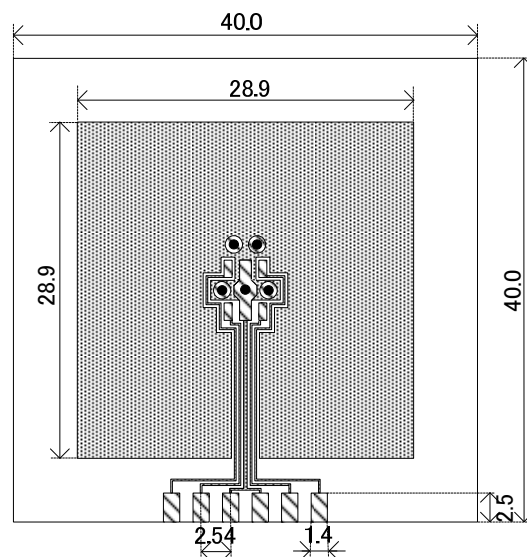
area in top and back faces

Package heat-sink is tied to the copper traces

Material: Glass Epoxy (FR-4)

Thickness: 1.6mm

Through-hole: 5 x 0.8 Diameter

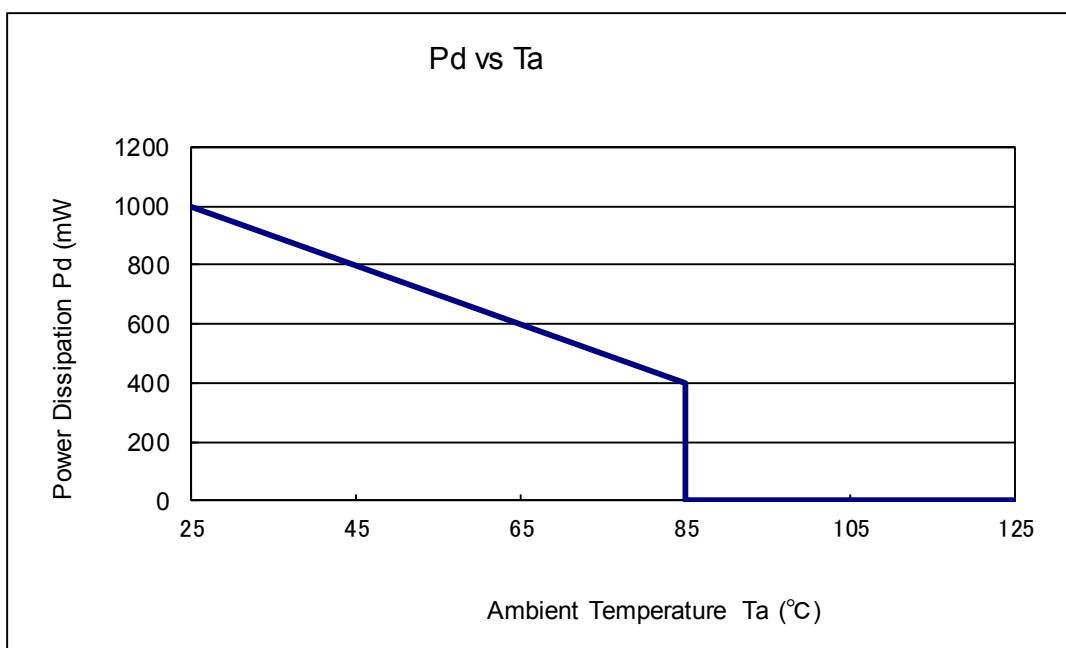


Evaluation Board (Unit : mm)

2. Power Dissipation vs. Ambient Temperature

Board Mount ( $T_j$  max = 125°C)

Ambient Temperature (°C)	Power Dissipation Pd (mW)	Thermal Resistance (°C/W)
25	1000	100.00
85	400	



## ● USP-6B Power Dissipation

Power dissipation data for the USP-6B is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as the reference data taken in the following condition.

### 1. Measurement Condition

Condition: Mount on a board

Ambient: Natural convection

Soldering: Lead (Pb) free

Board: Dimensions 40 x 40 mm

(1600 mm<sup>2</sup> in one side)

Copper (Cu) traces occupy 50% of the board

area in top and back faces

Package heat-sink is tied to the copper traces

Material: Glass Epoxy (FR-4)

Thickness: 1.6mm

Through-hole: 4 x 0.8 Diameter

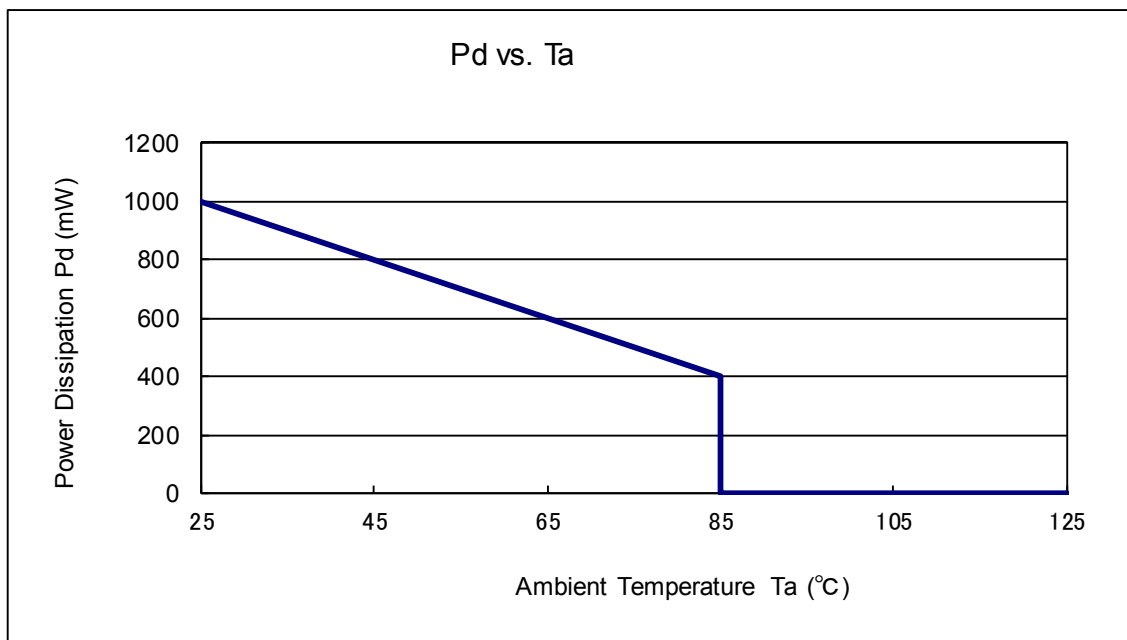


Evaluation Board (Unit: mm)

### 2. Power Dissipation vs. Ambient Temperature

Board Mount ( $T_j \text{ max} = 125^\circ\text{C}$ )

Ambient Temperature ( $^\circ\text{C}$ )	Power Dissipation $P_d$ (mW)	Thermal Resistance ( $^\circ\text{C}/\text{W}$ )
25	1000	100.00
85	400	



## MARKING RULE

### ● SOT-89, SOT-25



SOT-89  
(TOP VIEW)



SOT-25  
(TOP VIEW)

① represents the product series

MARK	PRODUCT SERIES
1	XC6201xxxxxx

② represents type of regulator

MARK		PRODUCT SERIES
Voltage= 0.1 ~ 3.0V	Voltage= 3.1 ~ 6.0V	
5	6	XC6201Pxxxxx
8	9	XC6201TxxxPx

③ represents output voltage

MARK	OUTPUT VOLTAGE (V)			MARK	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 assembly lot number

0 to 9, A to Z repeated (G, I, J, O, Q, W excluded)

## MARKING RULE (Continued)

### ● USP-6B



USP-6B  
(TOP VIEW)

①② represents product series

③ represents type of regulator

MARK	TYPE	PRODUCT SERIES
P	3pin Regulator	XC6201PxxxDx
T	V <sub>IN</sub> =7V(Rated)	XC6201TxxxDx

④⑤ represents output voltage

MARK		VOLTAGE (V)	PRODUCT SERIES
④	⑤		
3	3	3.3	XC6201x33xDx
5	0	5.0	XC6201x50xDx



⑥ represents assembly lot number  
0 to 9, A to Z repeated (G, I, J, O, Q, W excluded)  
Note: No character inversion used.

1. The product and product specifications contained herein are subject to change without notice to improve performance characteristics. Consult us, or our representatives before use, to confirm that the information in this datasheet is up to date.
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