



**THE DATASHEET OF  
XC6202P302FR**



# XC6202 Series

ETR0302\_007

## High Voltage Positive Voltage Regulators

### ■ GENERAL DESCRIPTION

The XC6202 series are highly precise, low power consumption, high voltage input, positive voltage regulators manufactured using CMOS and laser trimming technologies. The XC6202 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error correction circuit.

Output voltage is selectable in 0.1V steps from 1.8V ~ 18V. The series are also compatible with low ESR ceramic capacitors which give added output stability.

Since the current limiter circuit is built-in, the IC is protected against overshoot currents at such times of output shorts etc.

SOT-23, SOT-89, SOT-223 and USP-6B packages are available.

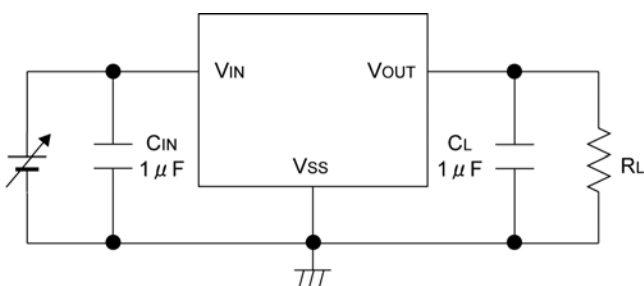
### ■ APPLICATIONS

- Multi-function power supplies
- Note PCs / Tablet PCs
- Digital still cameras / Camcorders
- Reference voltage sources

### ■ FEATURES

<b>Maximum Output Current</b>	: 150mA (within Pd)
<b>Maximum Operational Voltage</b>	: 20V
<b>Output Voltage Range</b>	: 1.8V ~ 18V (0.1V increments)
<b>Highly Accurate</b>	: $\pm 2\%$
<b>Low Power Consumption</b>	: 10 $\mu$ A (TYP.)
<b>Line Regulation</b>	: 0.01% / V (TYP.)
<b>Dropout Voltage</b>	: 200mV @ 30mA 670mV@100mA
<b>Operational Temperature Range</b>	: -40°C ~ 85°C
<b>Low ESR Capacitor Compatible</b>	: Ceramic capacitor
<b>Current Limiter Circuit Built-In</b>	
<b>Packages</b>	: SOT-23 SOT-89 SOT-223 USP-6B
<b>Environmentally Friendly</b>	: EU RoHS Compliant, Pb Free

### ■ TYPICAL APPLICATION CIRCUIT



### ■ TYPICAL PERFORMANCE CHARACTERISTICS



## PIN CONFIGURATION



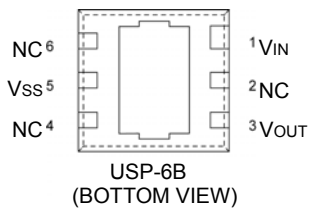
SOT-23  
(TOP VIEW)



SOT-89  
(TOP VIEW)



SOT-223  
(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	FUNCTIONS
SOT-23	SOT-89 SOT-223	USP-6B		
1	1	3	VOUT	Output
3	2	5	Vss	Ground
2	3	1	VIN	Power Input
—	—	2, 4, 6	NC	No connection

## ■ PRODUCT CLASSIFICATION

### ● Ordering Information

XC6202P①②③④⑤-⑥<sup>(\*)</sup>

DESIGNATOR	ITEM	SYMBOL	DESCRIPTION
①②	Output Voltage	18 ~ J0	: For the voltage above 10V, see the example 10=A, 11=B 12=C, 13=D, 14=E, 15=F, 16=G, 17=H, 18=J e.g. V <sub>OUT</sub> = 3.0V → ①:3, ②:0 V <sub>OUT</sub> = 12V → ①:C, ②:0 V <sub>OUT</sub> = 15V → ①:F, ②:0
③	Accuracy	2	: ±2%
④⑤-⑥ <sup>(*)</sup>	Packages (Order Unit)	MR	: SOT-23 (3,000pcs/Reel)
		MR-G	: SOT-23 (3,000pcs/Reel)
		PR	: SOT-89 (1,000pcs/Reel)
		PR-G	: SOT-89 (1,000pcs/Reel)
		FR	: SOT-223 (1,000pcs/Reel)
		FR-G	: SOT-223 (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.

## ■ BLOCK DIAGRAM



## ■ ABSOLUTE MAXIMUM RATINGS

Ta = 25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Input Voltage	V <sub>IN</sub>	22.0	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-23	P <sub>d</sub>	250
	SOT-89		500
	USP-6B		120
	SOT-223		1,200 *
Operating Ambient Temperature	T <sub>opr</sub>	-40~+85	°C
Storage Temperature	T <sub>stg</sub>	-55~+125	°C

## ■ ELECTRICAL CHARACTERISTICS

XC6202P182  $V_{OUT(T)}=1.8V$  (\*1)

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=2.8V$ $I_{OUT}=30mA$	1.764	1.800	1.836	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=2.8V$ $V_{OUT} \geq V_{OUT(E)} \times 0.9$	60	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=2.8V$ $1mA \leq I_{OUT} \leq 60mA$	-	10	80	mV	②
Dropout Voltage(*3)	Vdif1	$I_{OUT}=30mA$	-	340	470	mV	②
	Vdif2	$I_{OUT}=100mA$	-	1000	1500		
Supply Current	$I_{SS}$	$V_{IN}=2.8V$	-	10	24	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{(\Delta V_{IN} \cdot \Delta V_{OUT})}$	$I_{OUT}=1mA$ $2.8V \leq V_{IN} \leq 20V$	-	0.01	0.20	%/V	②
Input Voltage	$V_{IN}$		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{(\Delta T_a \cdot \Delta V_{OUT})}$	$I_{OUT}=30mA$ $-40^\circ C \leq T_a \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②
Short-circuit Current	$I_{short}$	$V_{IN}=3.8V$	-	40	-	mA	②

XC6202P332  $V_{OUT(T)}=3.3V$  (\*1)

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=4.3V$ $I_{OUT}=30mA$	3.234	3.300	3.366	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=4.3V$ $V_{OUT} \geq V_{OUT(E)} \times 0.9$	150	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=4.3V$ $1mA \leq I_{OUT} \leq 100mA$	-	25	90	mV	②
Dropout Voltage(*3)	Vdif1	$I_{OUT}=30mA$	-	200	280	mV	②
	Vdif2	$I_{OUT}=100mA$	-	670	900		
Supply Current	$I_{SS}$	$V_{IN}=4.3V$	-	10	24	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{(\Delta V_{IN} \cdot \Delta V_{OUT})}$	$I_{OUT}=1mA$ $4.3V \leq V_{IN} \leq 20V$	-	0.01	0.20	%/V	②
Input Voltage	$V_{IN}$		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{(\Delta T_a \cdot \Delta V_{OUT})}$	$I_{OUT}=30mA$ $-40^\circ C \leq T_a \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②
Short-circuit Current	$I_{short}$	$V_{IN}=5.3V$	-	40	-	mA	②

## ELECTRICAL CHARACTERISTICS (Continued)

XC6202P502

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

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=6V$ $I_{OUT}=30mA$	4.900	5.000	5100	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=6V$ $V_{OUT} \geq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=6V$ $1mA \leq I_{OUT} \leq 100mA$	-	30	100	mV	②
Dropout Voltage (*3)	$V_{dif1}$	$I_{OUT}=30mA$	-	130	190	mV	②
	$V_{dif2}$	$I_{OUT}=100mA$	-	440	550		
Supply Current	$I_{SS}$	$V_{IN}=6V$	-	10	24	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{(\Delta V_{IN} \cdot \Delta V_{OUT})}$	$I_{OUT}=1mA$ $6V \leq V_{IN} \leq 20V$	-	0.01	0.20	%/V	②
Input Voltage	$V_{IN}$		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{(\Delta T_a \cdot \Delta V_{OUT})}$	$I_{OUT}=30mA$ $-40^\circ C \leq T_a \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②
Short-circuit Current	$I_{short}$	$V_{IN}=7V$	-	40	-	mA	②

XC6202PC02

$V_{OUT(T)}=12V$  (\*1)

$T_a=25^\circ C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=13V$ $I_{OUT}=30mA$	11.760	12.000	12.240	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=13V$ $V_{OUT} \geq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=13V$ $1mA \leq I_{OUT} \leq 100mA$	-	60	230	mV	②
Dropout Voltage (*3)	$V_{dif1}$	$I_{OUT}=30mA$	-	90	150	mV	②
	$V_{dif2}$	$I_{OUT}=100mA$	-	290	380		
Supply Current	$I_{SS}$	$V_{IN}=13V$	-	12	28	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{(\Delta V_{IN} \cdot \Delta V_{OUT})}$	$I_{OUT}=1mA$ $13V \leq V_{IN} \leq 20V$	-	0.01	0.20	%/V	②
Input Voltage	$V_{IN}$		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{(\Delta T_a \cdot \Delta V_{OUT})}$	$I_{OUT}=30mA$ $-40^\circ C \leq T_a \leq 85^\circ C$	-	$\pm 100$	-	ppm/ $^\circ C$	②
Short-circuit Current	$I_{short}$	$V_{IN}=14V$	-	40	-	mA	②

## ■ ELECTRICAL CHARACTERISTICS (Continued)

XC6202PJ02

$V_{OUT(T)}=18V$  (\*1)

$T_a=25^{\circ}C$

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	$V_{OUT(E)}$ (*2)	$V_{IN}=19V$ $I_{OUT}=30mA$	17.640	18.000	18.360	V	②
Maximum Output Current	$I_{OUTmax}$	$V_{IN}=19V$ $V_{OUT} \geq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=19V$ $1mA \leq I_{OUT} \leq 100mA$	-	120	380	mV	②
Dropout Voltage (*3)	Vdif1	$I_{OUT}=30mA$	-	80	150	mV	②
	Vdif2	$I_{OUT}=100mA$	-	280	380		
Supply Current	$I_{SS}$	$V_{IN}=19V$	-	15	30	$\mu A$	①
Line Regulation	$\frac{\Delta V_{OUT}}{(\Delta V_{IN} \cdot \Delta V_{OUT})}$	$I_{OUT}=1mA$ $19V \leq V_{IN} \leq 20V$	-	0.01	0.20	%/V	②
Input Voltage	$V_{IN}$		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{(\Delta T_a \cdot \Delta V_{OUT})}$	$I_{OUT}=30mA$ $-40^{\circ}C \leq T_a \leq 85^{\circ}C$	-	$\pm 100$	-	ppm/ $^{\circ}C$	②
Short-circuit Current	$I_{short}$	$V_{IN}=20V$	-	40	-	mA	②

\*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 at the  $V_{IN}$  pin while maintaining certain  $I_{OUT}$  value).

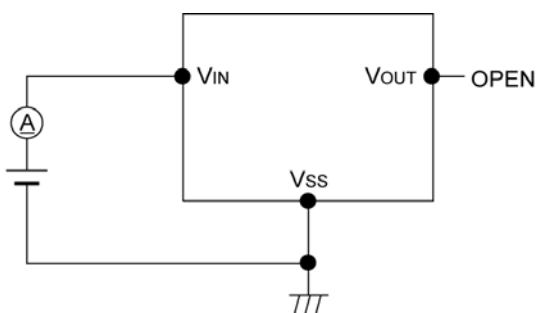
\*3.  $V_{dif} = \{V_{IN1}^{(*5)} - V_{OUT1}^{(*4)}\}$

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

\*5.  $V_{IN1}$  = The input voltage when  $V_{OUT1}$  is output following a gradual decrease in the input voltage.

## ■ TEST CIRCUITS

CIRCUIT ①



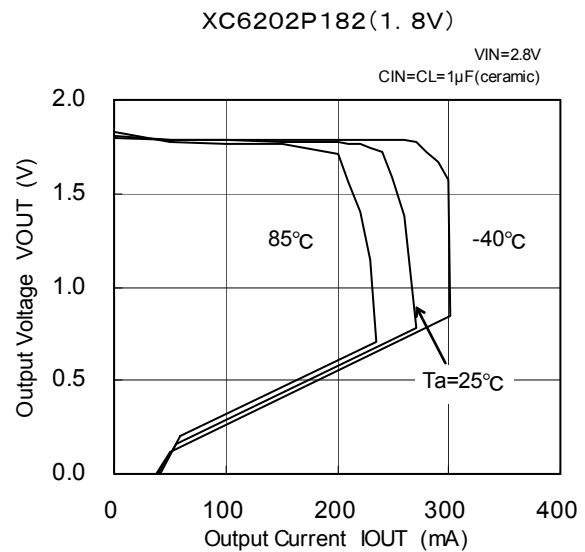
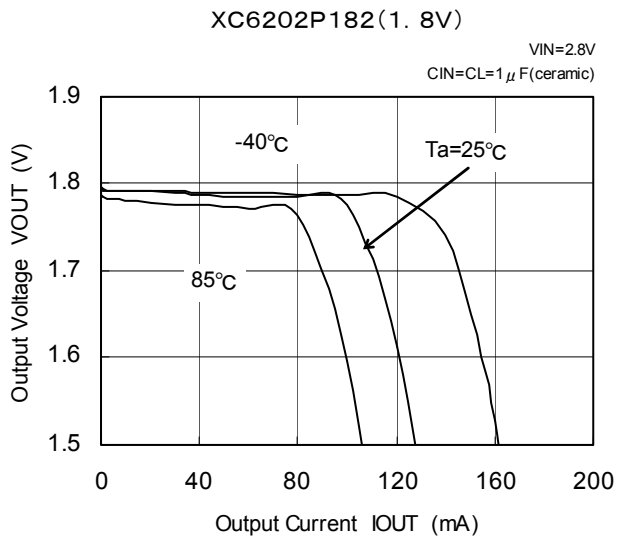
CIRCUIT ②



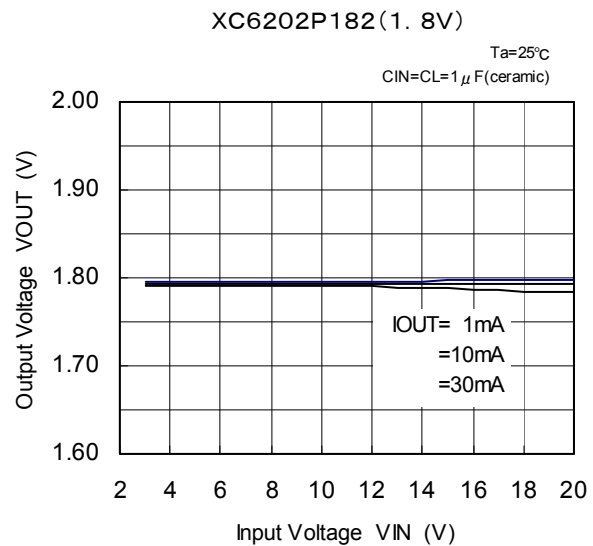
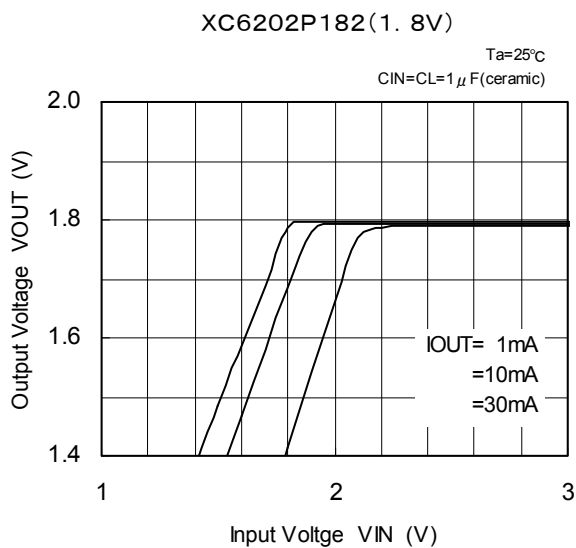
## TYPICAL PERFORMANCE CHARACTERISTICS

### ●XC6202P182

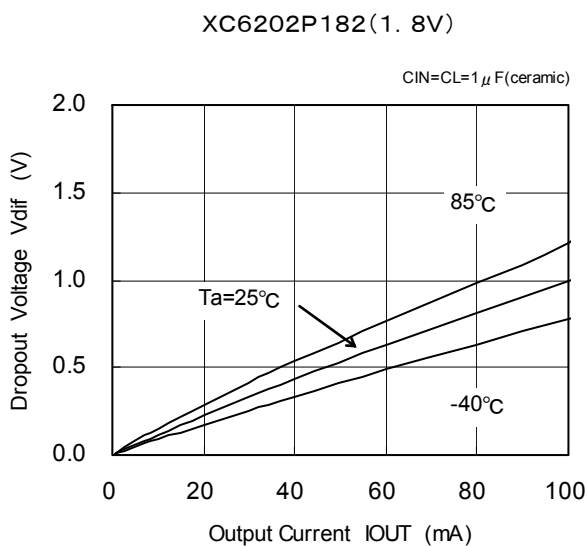
#### (1) Output Voltage vs. Output Current



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



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



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

● XC6202P182 (Continued)

(4) Supply Current vs. Input Voltage

XC6202P182 (1.8V)



XC6202P182 (1.8V)



(5) Output Voltage vs. Ambient Temperature

XC6202P182 (1.8V)



(6) Supply Current vs. Ambient Temperature

XC6202P182 (1.8V)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### XC6202P182 (Continued)

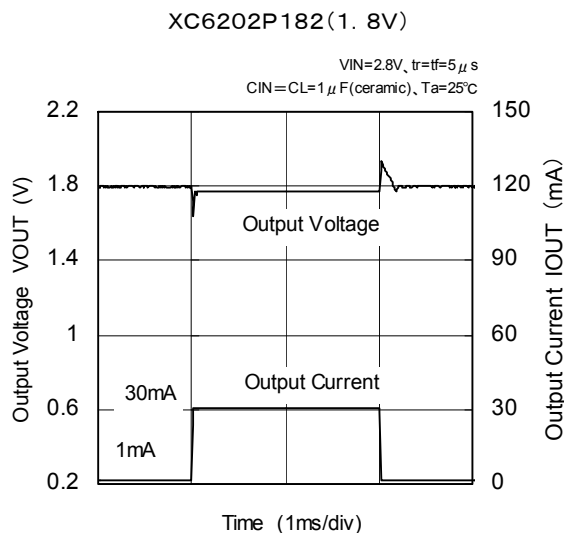
#### (7) Input Transient Response 1



#### (8) Input Transient Response 2



#### (9) Load Transient Response



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ● XC6202P182 (Continued)

#### (10) Ripple Rejection Rate



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

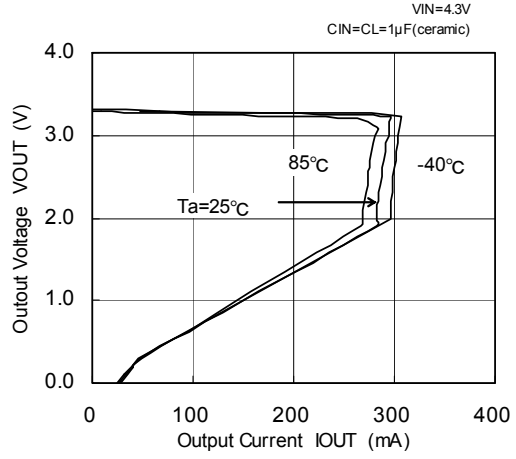
### ●XC6202P332

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

XC6202P332 (3.3V)

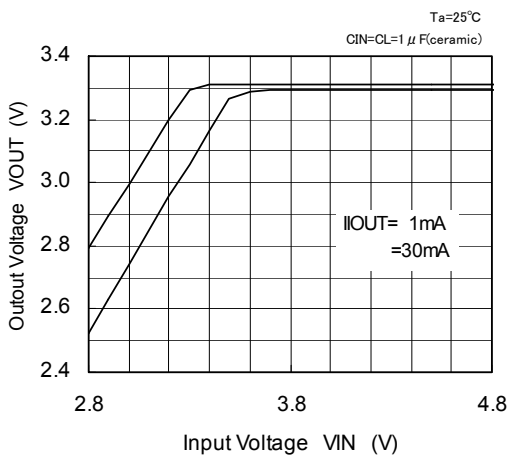


XC6202P332 (3.3V)

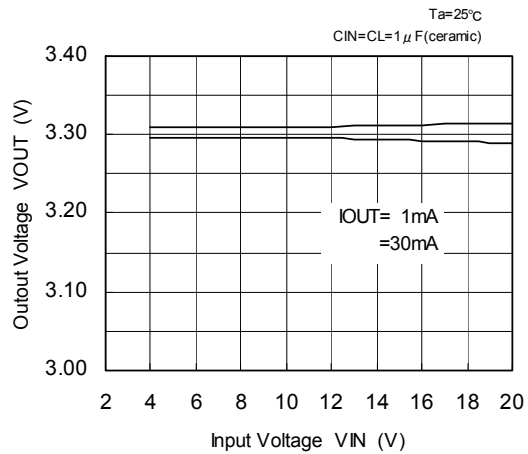


#### (2) Output Voltage vs. Input Voltage

XC6202P332 (3.3V)

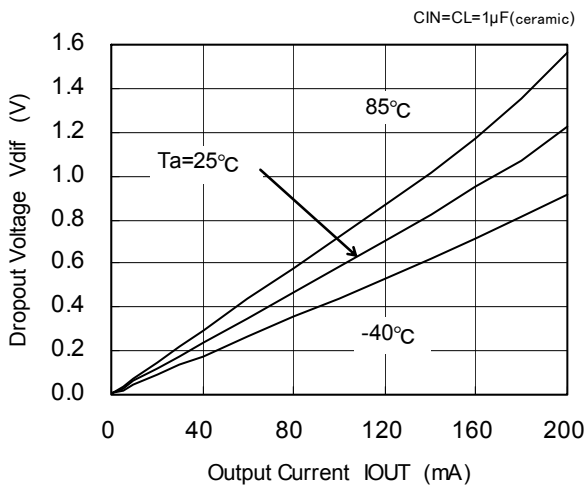


XC6202P332 (3.3V)



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

XC6202P332 (3.3V)



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ● XC6202P332 (Continued)

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

XC6202P332 (3.3V)



XC6202P332 (3.3V)



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

XC6202P332 (3.3V)



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

XC6202P332 (3.3V)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202P332 (Continued)

#### (7) Input Transient Response 1

XC6202P332 (3.3V)



#### (8) Input Transient Response 2

XC6202P332 (3.3V)



XC6202P332 (3.3V)



#### (9) Load Transient Response

XC6202P332 (3.3V)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202P332 (Continued)

#### (10) Ripple Rejection Rate

XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC

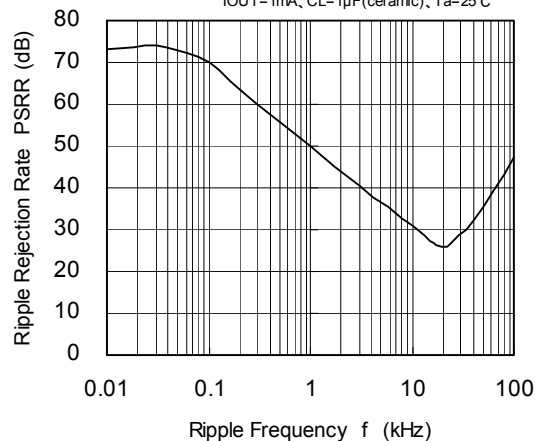
IOUT=0.1mA, CL=1μF(ceramic), Ta=25°C



XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC

IOUT=1mA, CL=1μF(ceramic), Ta=25°C



XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC

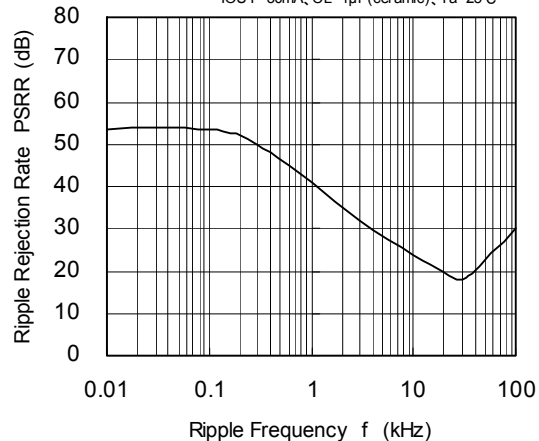
IOUT=10mA, CL=1μF(ceramic), Ta=25°C



XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC

IOUT=30mA, CL=1μF(ceramic), Ta=25°C



XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC

IOUT=50mA, CL=1μF(ceramic), Ta=25°C



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202P502

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



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



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



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

● XC6202P502 (Continued)

(4) Supply Current vs. Input Voltage

XC6202P502 (5V)



XC6202P502 (5V)



(5) Output Voltage vs. Ambient Temperature

XC6202P502 (5V)

VIN=6V  
CIN=CL=1µF(ceramic)



(6) Supply Current vs. Ambient Temperature

XC6202P502 (5V)

VIN=6V

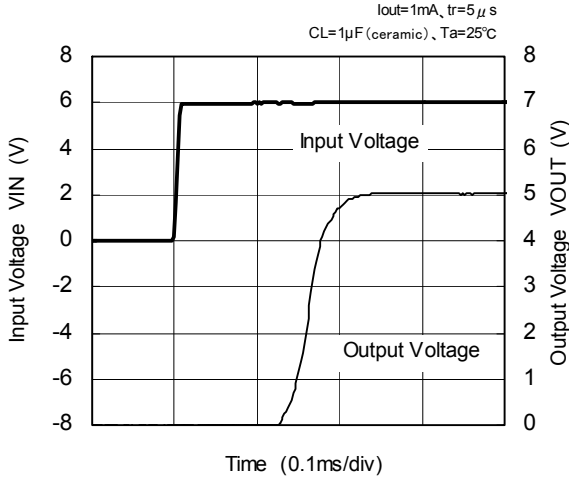


## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

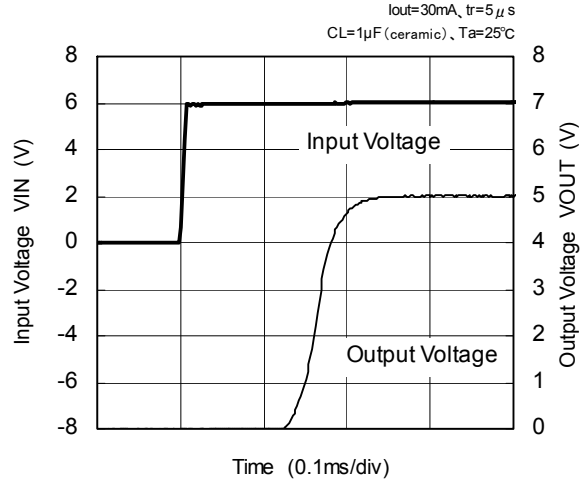
### ●XC6202P502 (Continued)

#### (7) Input Transient Response 1

XC6202P502 (5V)

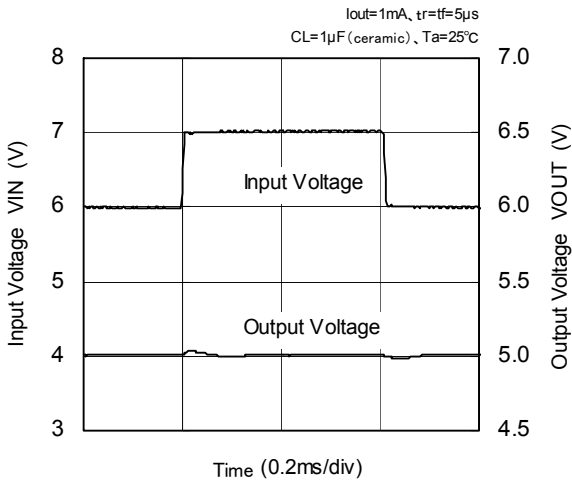


XC6202P502 (5V)

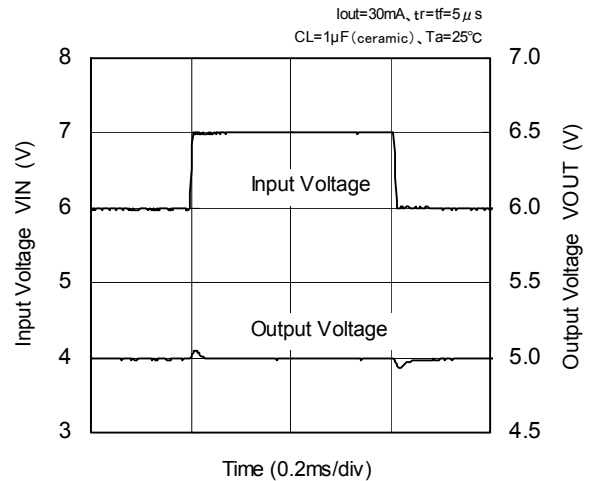


#### (8) Input Transient Response 2

XC6202P502 (5V)

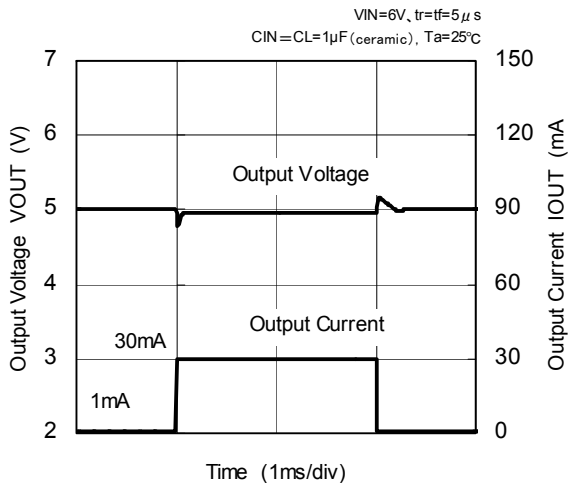


XC6202P502 (5V)



#### (9) Load Transient Response

XC6202P502 (5V)



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

● XC6202P502 (Continued)

(10) Ripple Rejection Rate



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202PC02

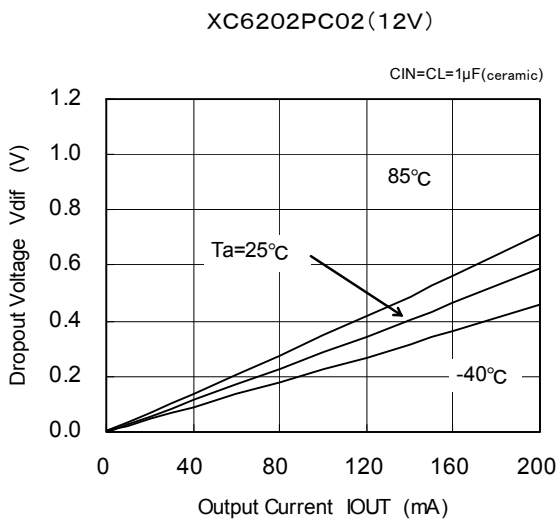
#### (1) Output Voltage vs. Output Current



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



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



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ● XC6202PC02 (Continued)

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

XC6202PC02(12V)



XC6202PC02(12V)



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

XC6202PC02(12V)



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

XC6202PC02(12V)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202PC02 (Continued)

#### (7) Input Transient Response 1



#### (8) Input Transient Response 2



#### (9) Load Transient Response



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ● XC6202PC02 (Continued)

#### (10) Ripple Rejection Rate



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202PJ02

(1) Output Voltage vs. Output Current



(2) Output Voltage vs. Input Voltage



(3) Dropout Voltage vs. Output Current



(4) Supply Current vs. Input Voltage



(5) Output Voltage vs. Ambient Temperature



## ■ TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ● XC6202PJ02 (Continued)

(6) Supply Current vs. Ambient Temperature  
XC6202PJ02(18V)



(7) Input Transient Response 1

XC6202PJ02(18V)



XC6202PJ02(18V)



(8) Input Transient Response 2

XC6202PJ02(18V)



XC6202PJ02(18V)



## TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

### ●XC6202PJ02 (Continued)

#### (9) Load Transient Response

XC6202PJ02(18V)



#### (10) Ripple Rejection Rate

XC6202PJ02(18V)



XC6202PJ02(18V)

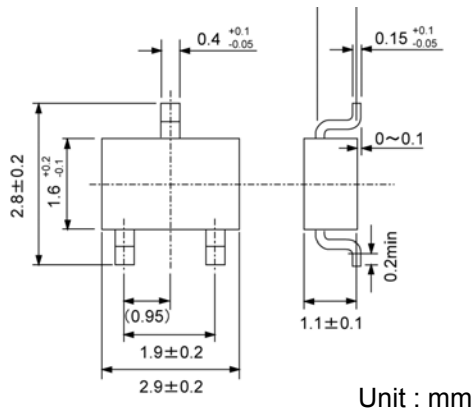


XC6202PJ02(18V)

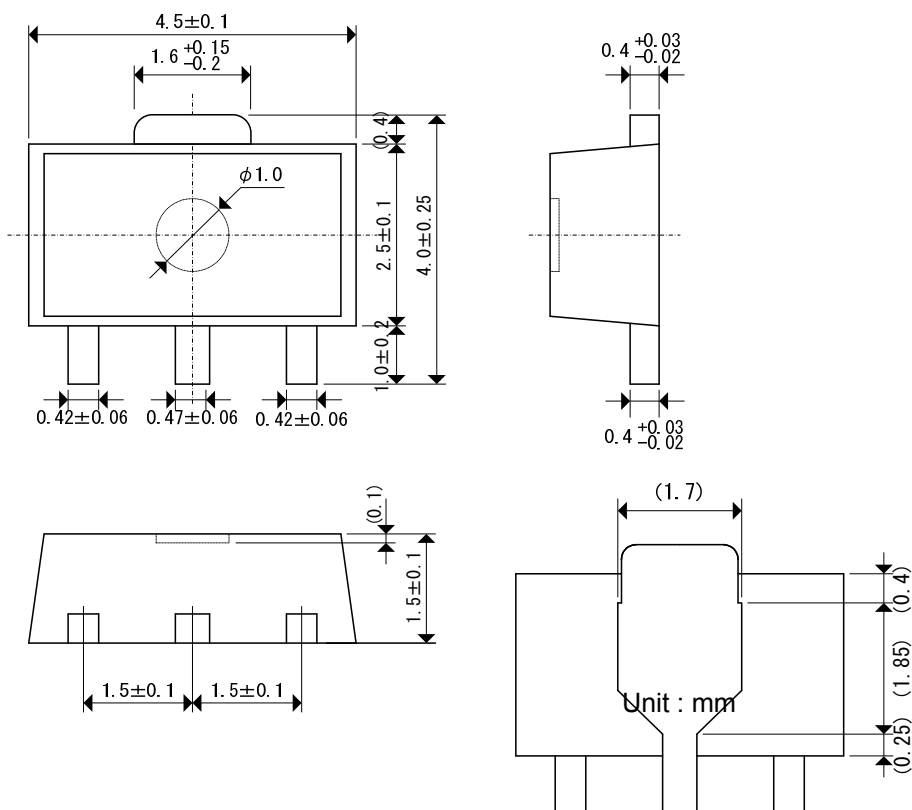


■ PACKAGING INFORMATION

● SOT-23



● SOT-89



## PACKAGING INFORMATION (Continued)

### ● SOT-223



Unit : mm

## PACKAGING INFORMATION (Continued)

### ● USP-6B



Unit : mm

### ● USP-6B Recommended Pattern Layout



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



## MARKING RULE

● SOT-23, SOT-89, SOT-223



SOT-23  
(TOP VIEW)



SOT-89  
(TOP VIEW)



SOT-223  
(TOP VIEW)

① represents product series

MARK	PRODUCT SERIES
2	XC6202Pxxxxx

② represents output voltage range

MARK	VOLTAGE (V)	PRODUCT SERIES
4	0.1 ~ 3.0	XC6202Pxxxxx
5	3.1 ~ 6.0	
6	6.1 ~ 9.0	
7	9.1 ~ 12.0	
8	12.1 ~ 15.0	
9	15.1 ~ 18.0	

③ represents output voltage

MARK	VOLTAGE (V)						MARK	VOLTAGE (V)					
0	—	3.1	6.1	9.1	12.1	15.1	F	—	4.6	7.6	10.6	13.6	16.6
1	—	3.2	6.2	9.2	12.2	15.2	H	—	4.7	7.7	10.7	13.7	16.7
2	—	3.3	6.3	9.3	12.3	15.3	K	1.8	4.8	7.8	10.8	13.8	16.8
3	—	3.4	6.4	9.4	12.4	15.4	L	1.9	4.9	7.9	10.9	13.9	16.9
4	—	3.5	6.5	9.5	12.5	15.5	M	2.0	5.0	8.0	11.0	14.0	17.0
5	—	3.6	6.6	9.6	12.6	15.6	N	2.1	5.1	8.1	11.1	14.1	17.1
6	—	3.7	6.7	9.7	12.7	15.7	P	2.2	5.2	8.2	11.2	14.2	17.2
7	—	3.8	6.8	9.8	12.8	15.8	R	2.3	5.3	8.3	11.3	14.3	17.3
8	—	3.9	6.9	9.9	12.9	15.9	S	2.4	5.4	8.4	11.4	14.4	17.4
9	—	4.0	7.0	10.0	13.0	16.0	T	2.5	5.5	8.5	11.5	14.5	17.5
A	—	4.1	7.1	10.1	13.1	16.1	U	2.6	5.6	8.6	11.6	14.6	17.6
B	—	4.2	7.2	10.2	13.2	16.2	V	2.7	5.7	8.7	11.7	14.7	17.7
C	—	4.3	7.3	10.3	13.3	16.3	X	2.8	5.8	8.8	11.8	14.8	17.8
D	—	4.4	7.4	10.4	13.4	16.4	Y	2.9	5.9	8.9	11.9	14.9	17.9
E	—	4.5	7.5	10.5	13.5	16.5	Z	3.0	6.0	9.0	12.0	15.0	18.0

④ represents production lot number

0 to 9, A to Z reversed character 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

MARK		PRODUCT SERIES
②	②	
0	2	XC6202PxxxDx

③ represents type of regulator

MARK	PRODUCT SERIES
P	XC6202Pxxxxx

④ represents integer of the output voltage

MARK	VOLTAGE (V)	PRODUCT SERIES	MARK	VOLTAGE (V)	PRODUCT SERIES
1	1.x	XC6202P1xxDx	A	10.x	XC6202PAxxDx
2	2.x	XC6202P2xxDx	B	11.x	XC6202PBxxDx
3	3.x	XC6202P3xxDx	C	12.x	XC6202PCxxDx
4	4.x	XC6202P4xxDx	D	13.x	XC6202PDxxDx
5	5.x	XC6202P5xxDx	E	14.x	XC6202PExxDx
6	6.x	XC6202P6xxDx	F	15.x	XC6202PFxxDx
7	7.x	XC6202P7xxDx	G	16.x	XC6202PGxxDx
8	8.x	XC6202P8xxDx	H	17.x	XC6202PHxxDx
9	9.x	XC6202P9xxDx	J	18.x	XC6202PJxxDx

⑤ represents decimal number of output voltage

MARK	VOLTAGE (V)	PRODUCT SERIES
3	X.3	XC6202Px3xDx
0	X.0	XC6202Px0xDx

⑥ represents production lot number

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

Note: No character inversion used.

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