XC6202 series is Not Recommended for New Designs.

XC6202 Series

High Voltage Positive Voltage Regulators

ETR0302_008a

■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

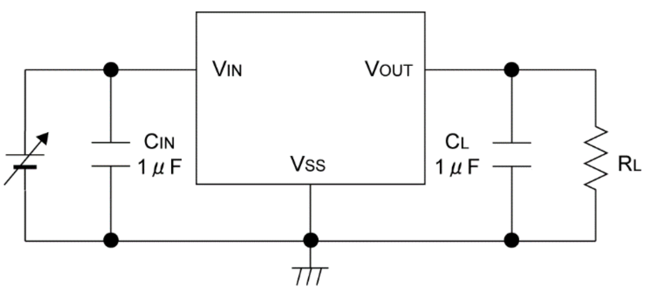
●Digital still cameras / Camcorders

●Reference voltage sources

■FEATURES

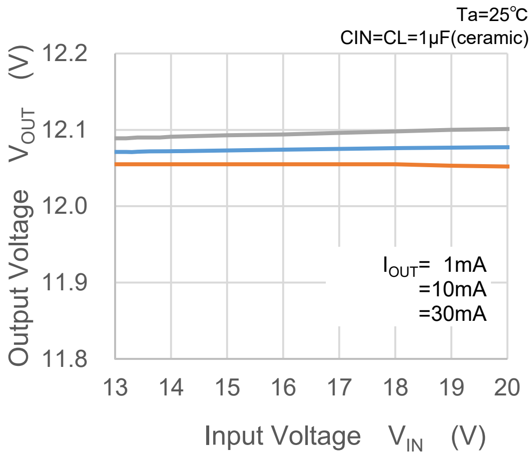
Maximum Output Current : 150mA (within Pd)
Maximum Operational Voltage : 20V
Output Voltage Range : 1.8V ~ 18V (0.1V increments)
Highly Accurate : ±2%
Low Power Consumption : 10 μA (TYP.)
Line Regulation : 0.01% / V (TYP.)
Dropout Voltage : 200mV @ 30mA
670mV@100mA
Operational Temperature Range : -40℃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

■TYPICAL APPLICATION CIRCUIT

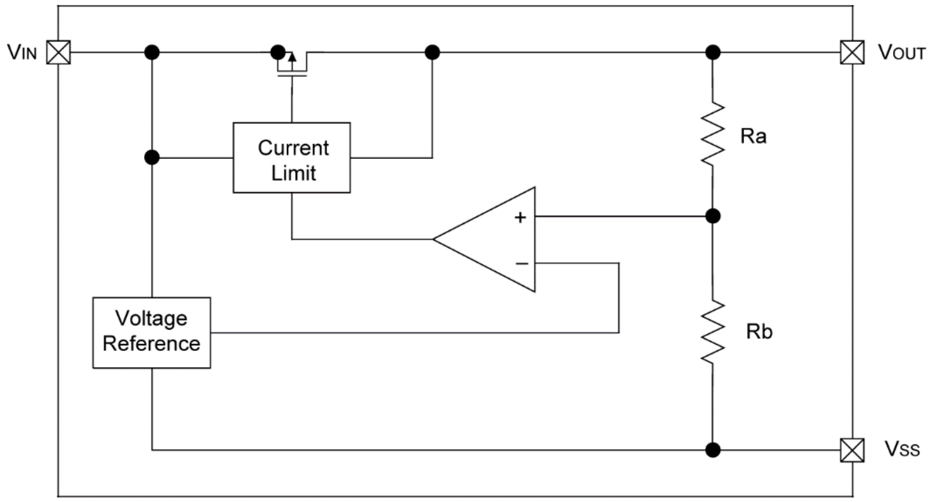


■TYPICAL PERFORMANCE CHARACTERISTICS

XC6202PC02(Vout=12V)



■BLOCK DIAGRAM



■PRODUCT CLASSIFICATION

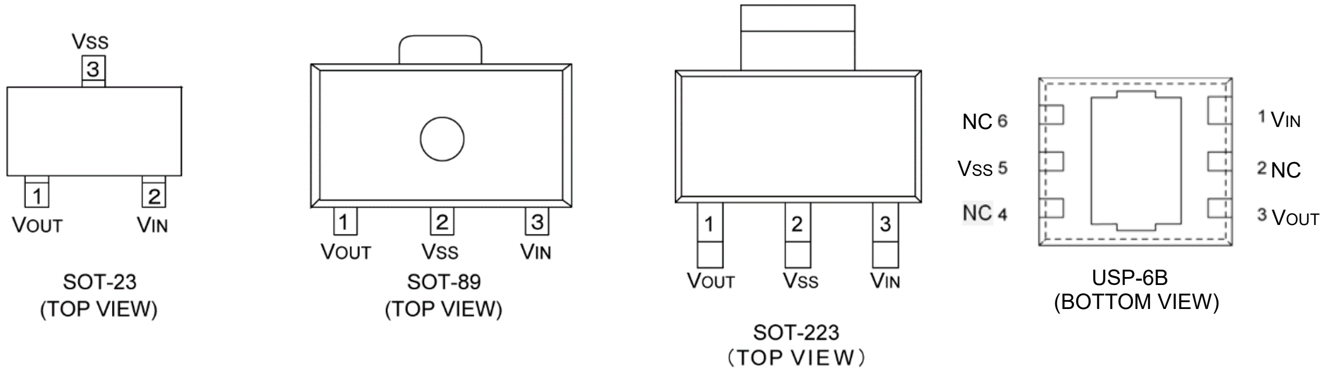
●Ordering Information

XC6202P①②③④⑤-⑥ (*1)

DESIGNATOR	ITEM	SYMBOL	DESCRIPTION
①②	Output Voltage	18 ~ J0	For the voltage above 10V, see the example For 1.8V to 9.9V, the voltage value is entered as it is. ① 10=A, 11=B 12=C, 13=D, 14=E, 15=F, 16=G, 17=H, 18=J ② Voltage value after the decimal point. e.g. 30 : 3.0V 50 : 5.0V B5 : 11.5V F6 : 15.6V J0 : 18.0V
③	Accuracy	2	±2%
④⑤-⑥ (*1)	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)

(*1) The "-G" suffix denotes Halogen and Antimony free as well as being fully EU RoHS compliant.

■PIN CONFIGURATION



*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	V_{OUT}	Output
3	2	5	V_{SS}	Ground
2	3	1	V_{IN}	Power Input
—	—	2, 4, 6	NC	No connection

■ABSOLUTE MAXIMUM RATINGS

Ta = 25℃

PARAMETER		SYMBOL	RATINGS	UNITS
Input Voltage		V_{IN}	22.0	V
Output Current		I_{OUT}	500	mA
Output Voltage		V_{OUT}	V_{SS}-0.3 ~ V_{IN}+0.3	V
Power Dissipation	SOT-23	Pd	250	mW
			500(40mm x 40mm Standard board) (*1)	
	SOT-89		500	
			1000(40mm x 40mm Standard board) (*1)	
	USP-6B		120	
			1000(40mm x 40mm Standard board) (*1)	
	SOT-223		300	
			1500(40mm x 40mm Standard board) (*1)	
Operating Ambient Temperature		Topr	-40 ~ +85	℃
Storage Temperature		Tstg	-55 ~ +125	℃

(*1)The power dissipation figure shown is PCB mounted and is for reference only.
The mounting condition is please refer to PACKAGING INFORMATION

■ELECTRICAL CHARACTERISTICS

XC6202P182 $V_{OUT(T)}$=1.8V (*1) Ta=25℃

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}≧$V_{OUT(E)}$×0.9	60	-	-	mA	②
Load Regulation	ΔV_{OUT}	V_{IN}=2.8V 1mA≦I_{OUT}≦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	μA	①
Line Regulation	ΔV_{OUT}/ ($\Delta V_{IN}\cdot V_{OUT}$)	I_{OUT}=1mA 2.8V≦V_{IN}≦20V	-	0.01	0.20	%/V	②
Input Voltage	V_{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	ΔV_{OUT}/ ($\Delta Ta\cdot V_{OUT}$)	I_{OUT}=30mA -40℃≦Ta≦85℃	-	±100	-	ppm/℃	②
Short-circuit Current	Ishort	V_{IN}=3.8V	-	40	-	mA	②

XC6202P332 $V_{OUT(T)}$=3.3V (*1) Ta=25℃

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}≧$V_{OUT(E)}$×0.9	150	-	-	mA	②
Load Regulation	ΔV_{OUT}	V_{IN}=4.3V 1mA≦I_{OUT}≦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	μA	①
Line Regulation	ΔV_{OUT}/ ($\Delta V_{IN}\cdot V_{OUT}$)	I_{OUT}=1mA 4.3V≦V_{IN}≦20V	-	0.01	0.20	%/V	②
Input Voltage	V_{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	ΔV_{OUT}/ ($\Delta Ta\cdot V_{OUT}$)	I_{OUT}=30mA -40℃≦Ta≦85℃	-	±100	-	ppm/℃	②
Short-circuit Current	Ishort	V_{IN}=5.3V	-	40	-	mA	②

■ELECTRICAL CHARACTERISTICS (Continued)

XC6202P502 $V_{OUT(T)}$=5.0V (*1) Ta=25℃

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 $V_{OUT} \geqq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	ΔV_{OUT}	V_{IN}=6V $1mA \leqq I_{OUT} \leqq 100mA$	-	30	100	mV	②
Dropout Voltage(*3)	Vdif1	I_{OUT}=30mA	-	130	190	mV	②
	Vdif2	I_{OUT}=100mA	-	440	550		
Supply Current	I_{SS}	V_{IN}=6V	-	10	24	μA	①
Line Regulation	$\Delta V_{OUT}/(\Delta V_{IN} \cdot \Delta V_{OUT})$	I_{OUT}=1mA $6V \leqq V_{IN} \leqq 20V$	-	0.01	0.20	%/V	②
Input Voltage	V_{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\Delta V_{OUT}/(\Delta Ta \cdot \Delta V_{OUT})$	I_{OUT}=30mA -40℃≦Ta≦85℃	-	±100	-	ppm/℃	②
Short-circuit Current	Ishort	VIN=7V	-	40	-	mA	②

XC6202PC02 $V_{OUT(T)}$=12V (*1) Ta=25℃

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_{OUT}max	V_{IN}=13V $V_{OUT} \geqq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	ΔV_{OUT}	V_{IN}=13V $1mA \leqq I_{OUT} \leqq 100mA$	-	60	230	mV	②
Dropout Voltage(*3)	Vdif1	I_{OUT}=30mA	-	90	150	mV	②
	Vdif2	I_{OUT}=100mA	-	290	380		
Supply Current	I_{SS}	V_{IN}=13V	-	12	28	μA	①
Line Regulation	$\Delta V_{OUT}/(\Delta V_{IN} \cdot \Delta V_{OUT})$	I_{OUT}=1mA $13V \leqq V_{IN} \leqq 20V$	-	0.01	0.20	%/V	②
Input Voltage	V_{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\Delta V_{OUT}/(\Delta Ta \cdot \Delta V_{OUT})$	I_{OUT}=30mA -40℃≦Ta≦85℃	-	±100	-	ppm/℃	②
Short-circuit Current	Ishort	V_{IN}=14V	-	40	-	mA	②

■ELECTRICAL CHARACTERISTICS (Continued)

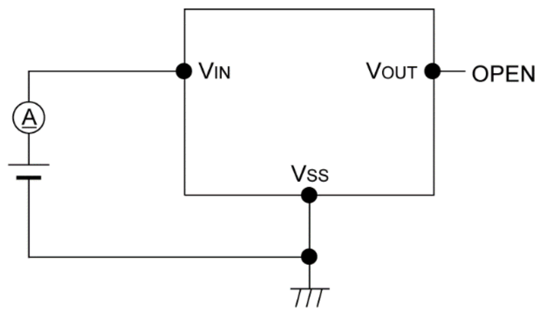
XC6202PJ02 $V_{OUT(T)}$=18V [*1] Ta=25℃

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 $V_{OUT} \geqq V_{OUT(E)} \times 0.9$	200	-	-	mA	②
Load Regulation	ΔV_{OUT}	V_{IN}=19V 1mA≦I_{OUT}≦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	μA	①
Line Regulation	ΔV_{OUT}/ $(\Delta V_{IN} \cdot V_{OUT})$	I_{OUT}=1mA 19V≦VIN≦20V	-	0.01	0.20	%/V	②
Input Voltage	V_{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	ΔV_{OUT}/ $(\Delta Ta \cdot V_{OUT})$	I_{OUT}=30mA -40℃≦Ta≦85℃	-	±100	-	ppm/℃	②
Short-circuit Current	Ishort	V_{IN}=20V	-	40	-	mA	②

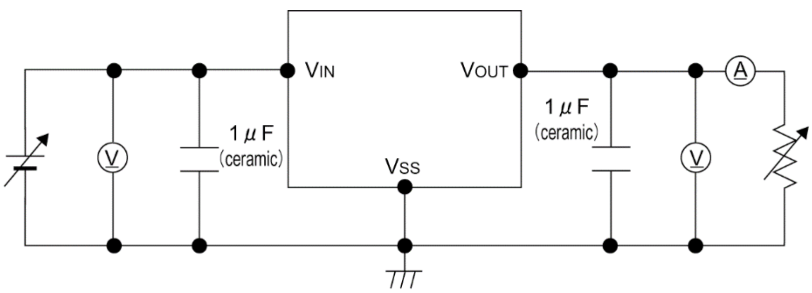
*1. $V_{OUT(T)}$ = Specified output voltage.
*2. $V_{OUT(E)}$ = Effective output voltage (i.e. the output voltage when "$V_{OUT(T)}$ +1.0V" is provided at the V_{IN} pin while maintaining certain I_{OUT} value).
*3. Vdif = {V_{IN1} [*5]-V_{OUT1} [*4]}
*4. V_{OUT1} = A voltage equal to 98% of the output 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



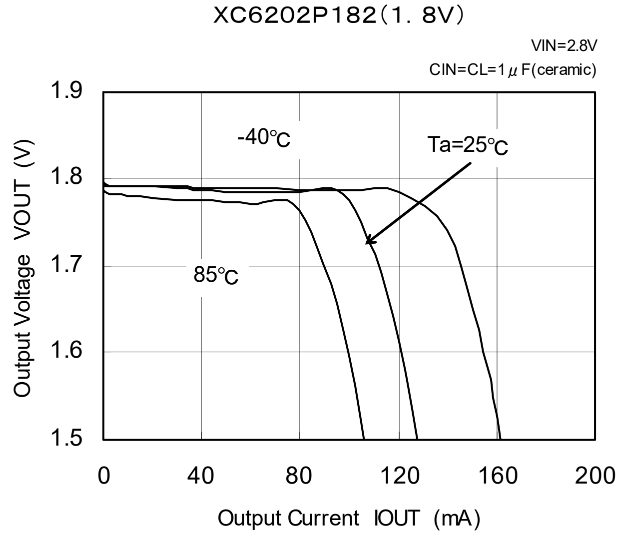
CIRCUIT ②

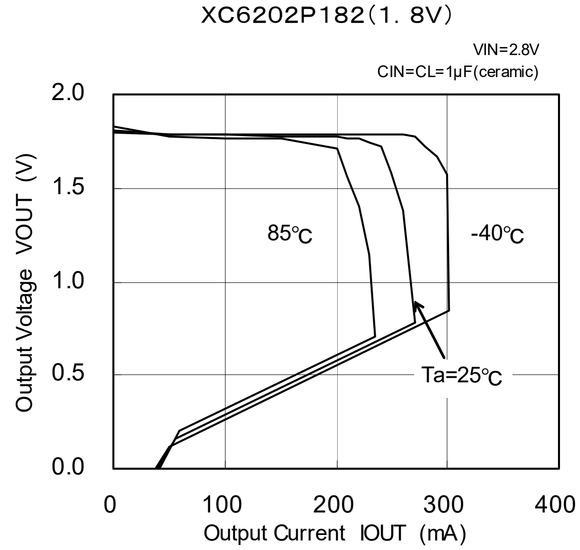


■TYPICAL PERFORMANCE CHARACTERISTICS

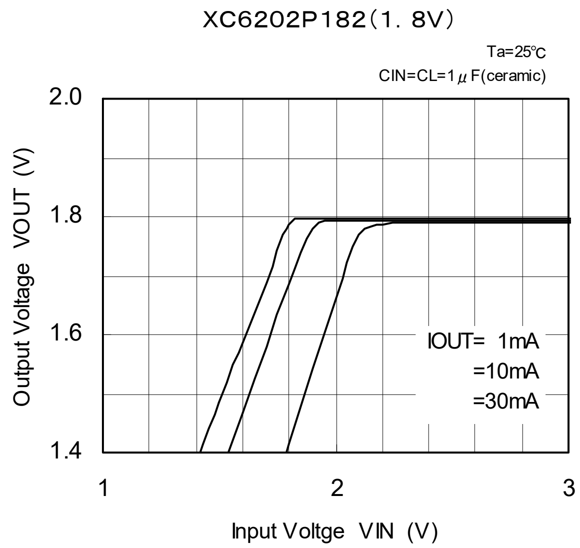
●XC6202P182

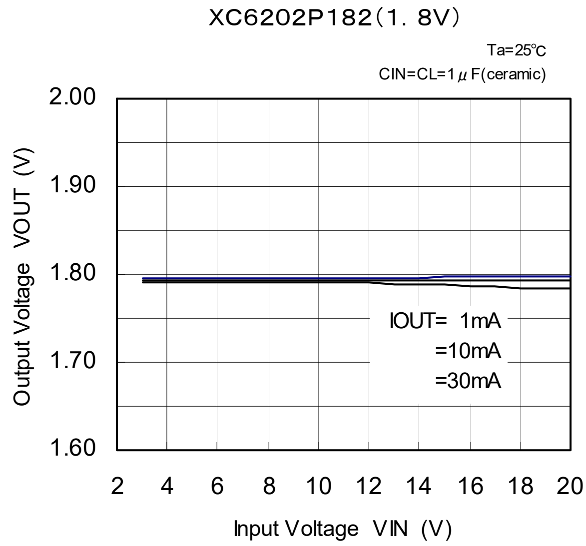
(1) Output Voltage vs. Output Current



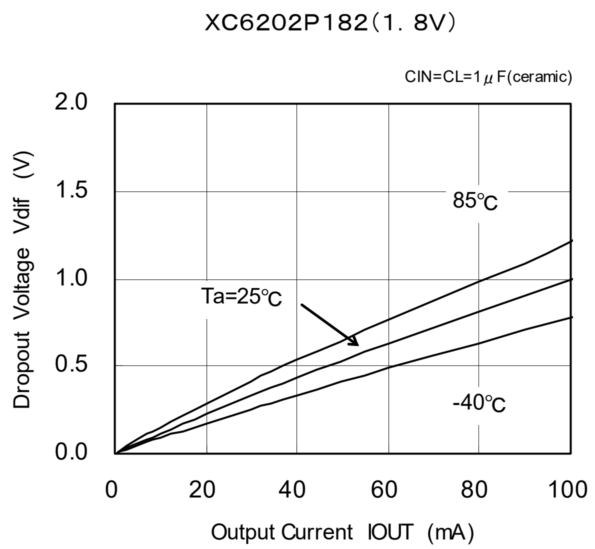


(2) Output Voltage vs. Input Voltage





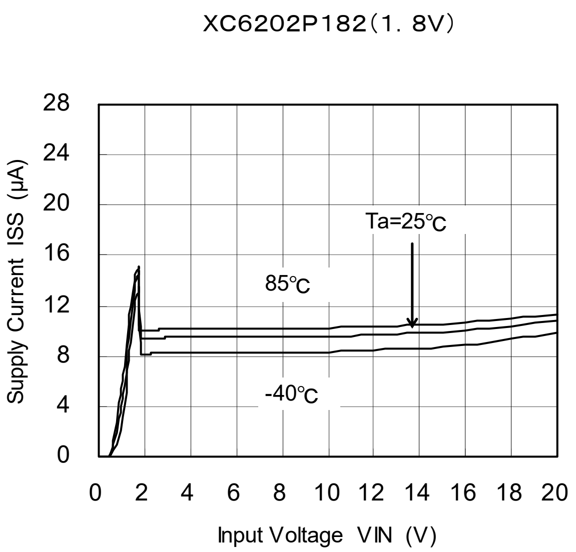
(3) Dropout Voltage vs. Output Current

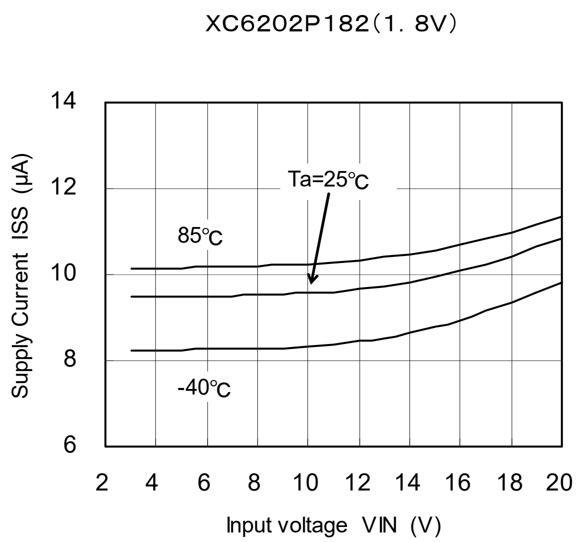


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

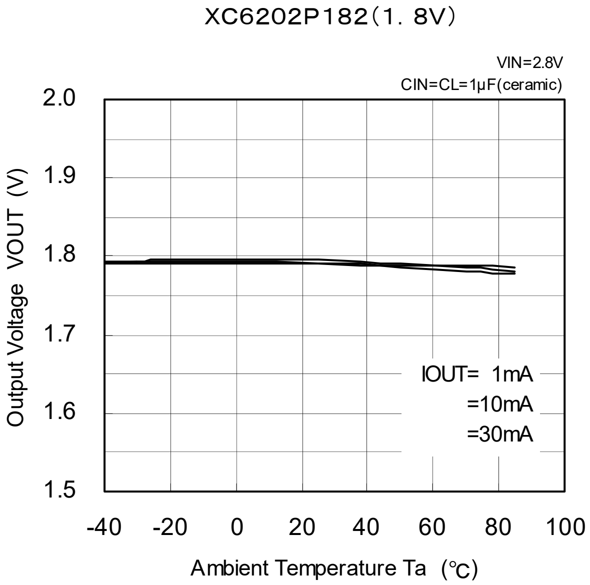
●XC6202P182 (Continued)

(4) Supply Current vs. Input Voltage

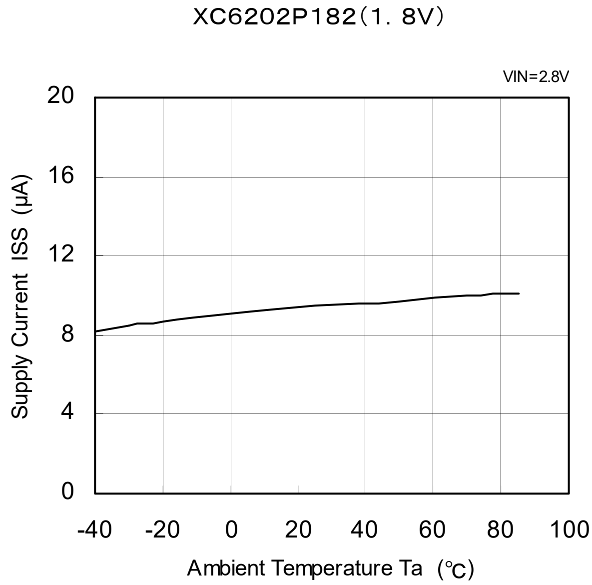




(5) Output Voltage vs. Ambient Temperature



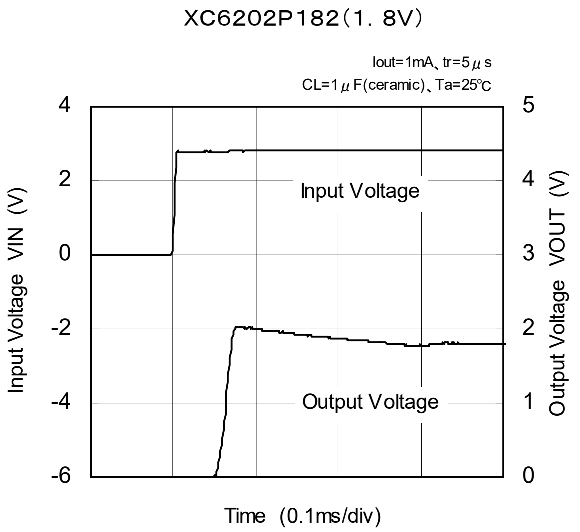
(6) Supply Current vs. Ambient Temperature

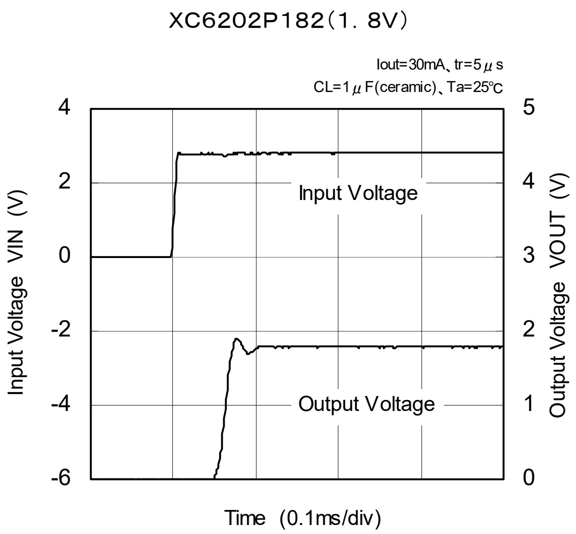


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

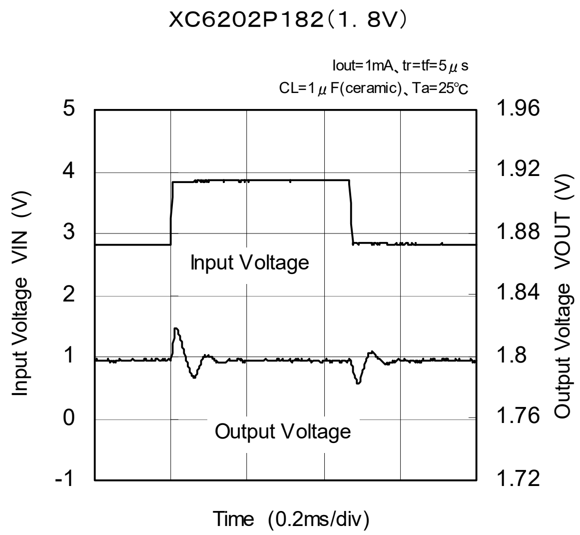
●XC6202P182 (Continued)

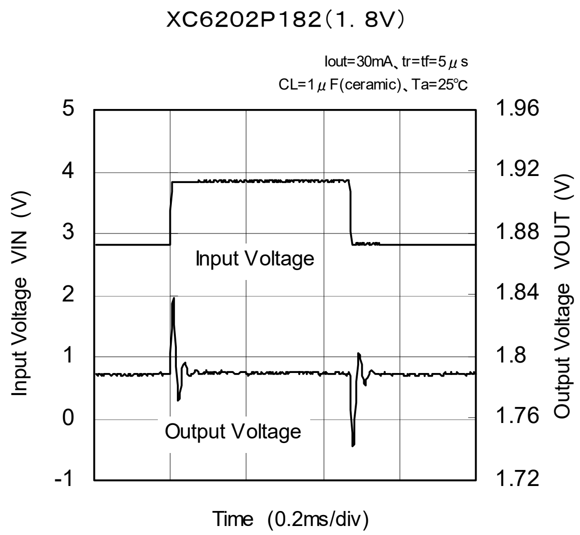
(7) Input Transient Response 1



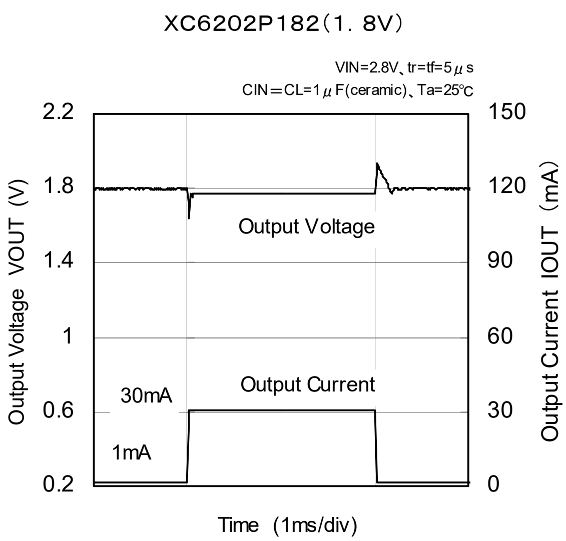


(8) Input Transient Response 2





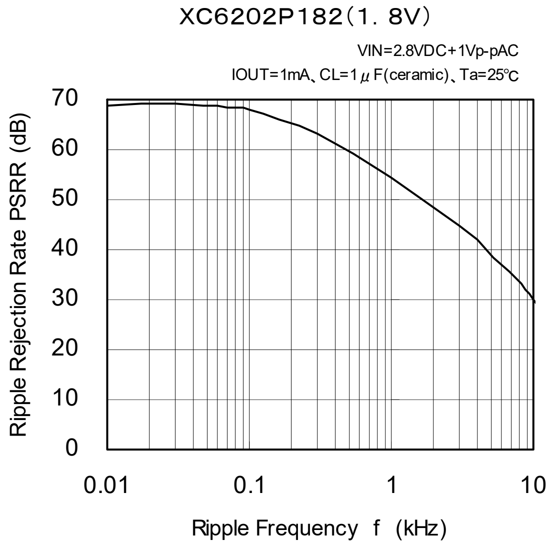
(9) Load Transient Response

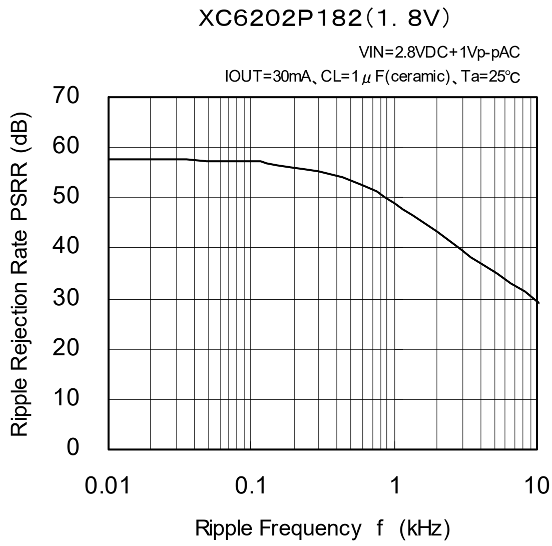


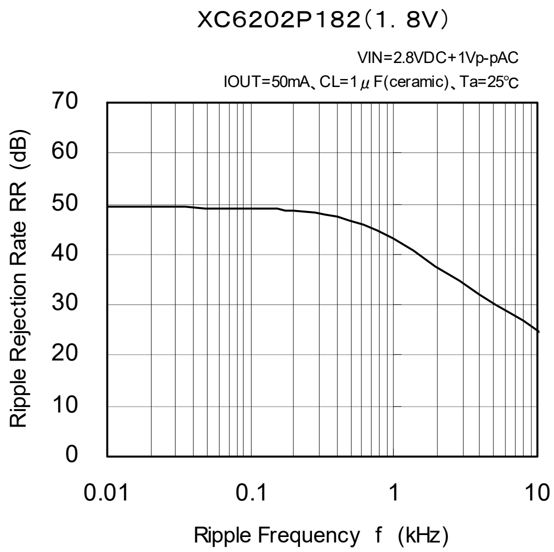
■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202P182 (Continued)

(10) Ripple Rejection Rate



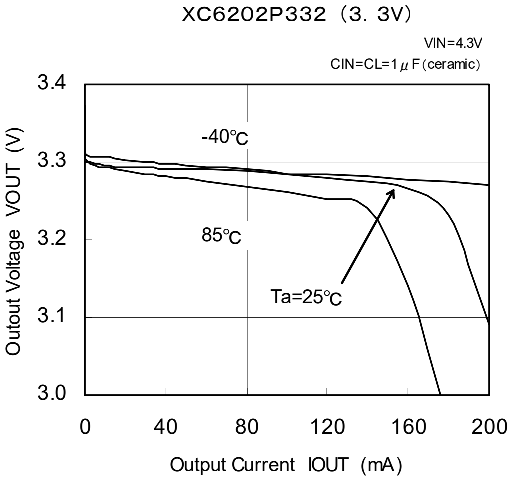


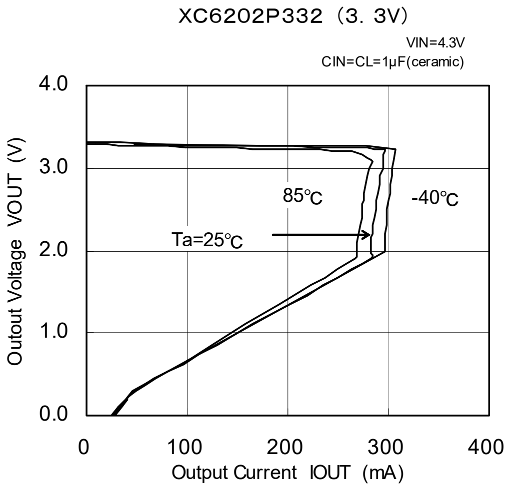


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

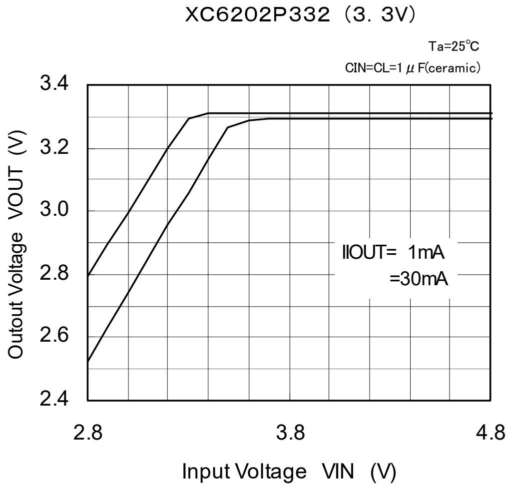
●XC6202P332

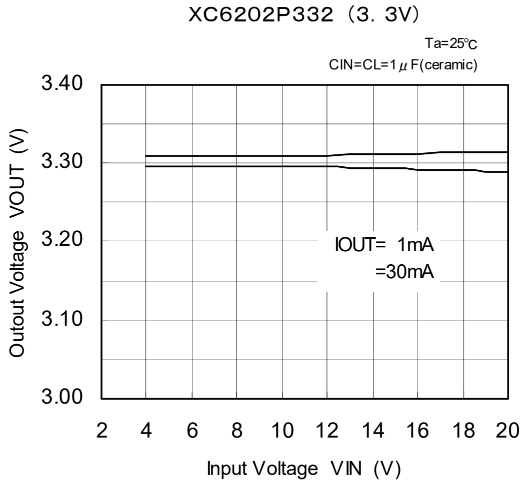
(1) Output Voltage vs. Output Current



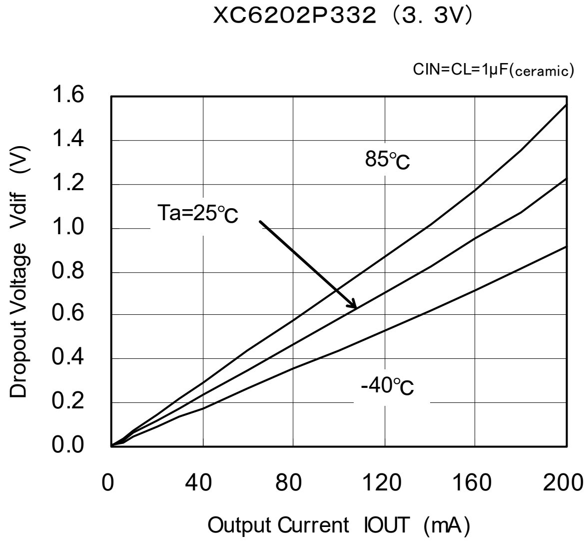


(2) Output Voltage vs. Input Voltage





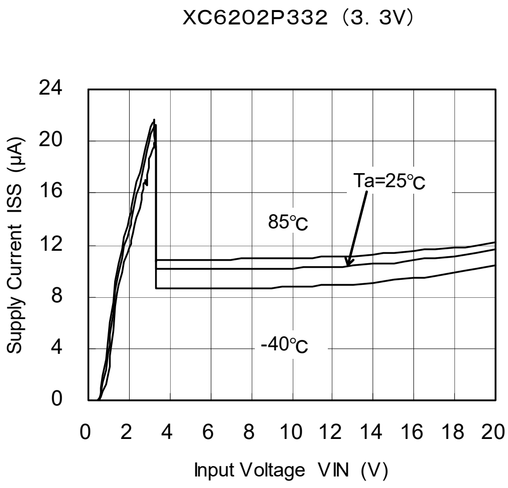
(3) Dropout Voltage vs. Output Current

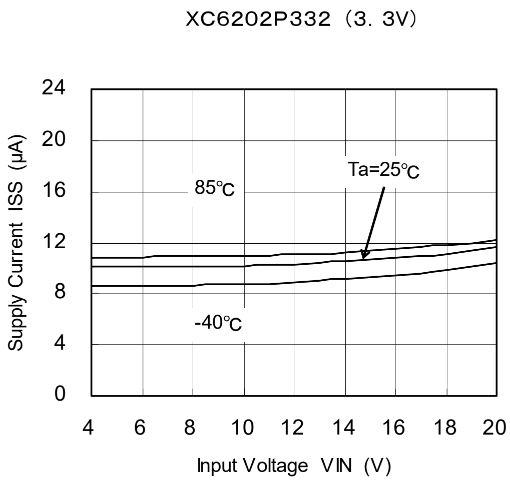


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

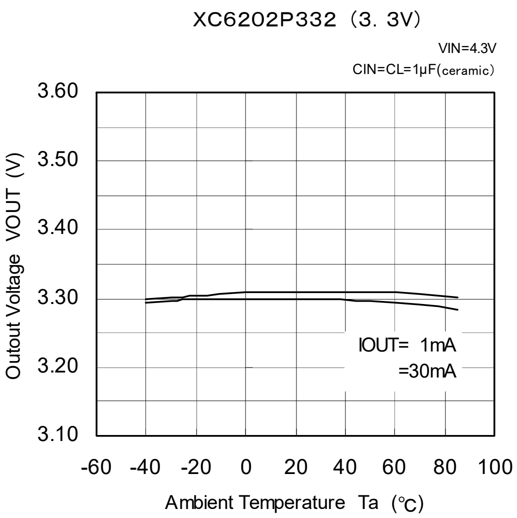
●XC6202P332 (Continued)

(4) Supply Current vs. Input Voltage

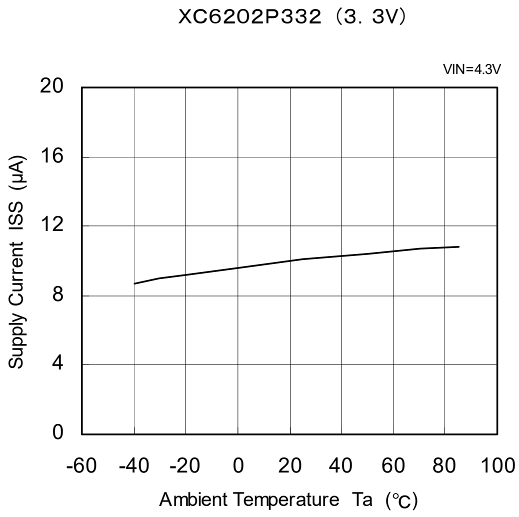




(5) Output Voltage vs. Ambient Temperature



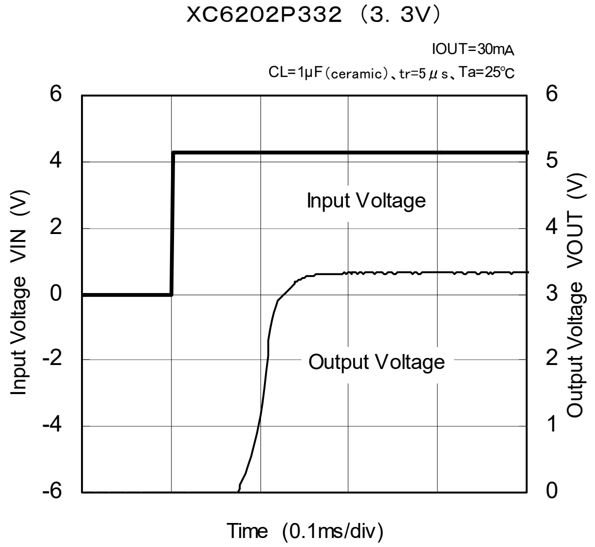
(6) Supply Current vs. Ambient Temperature



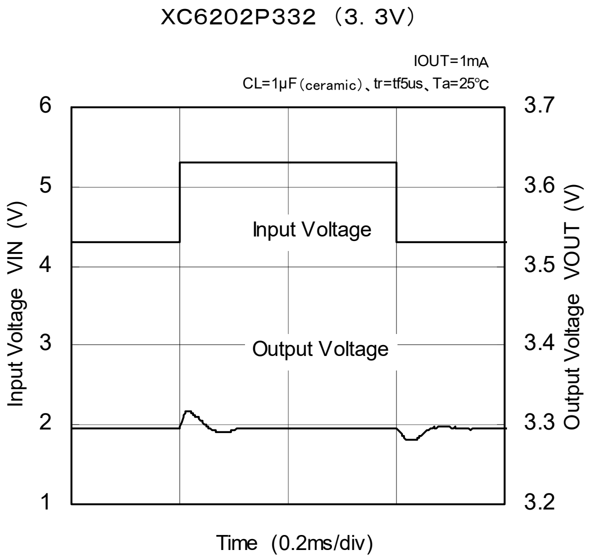
■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

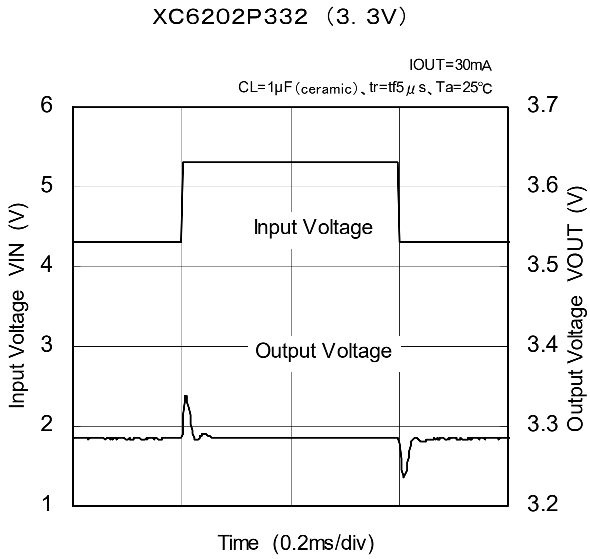
●XC6202P332 (Continued)

(7) Input Transient Response 1

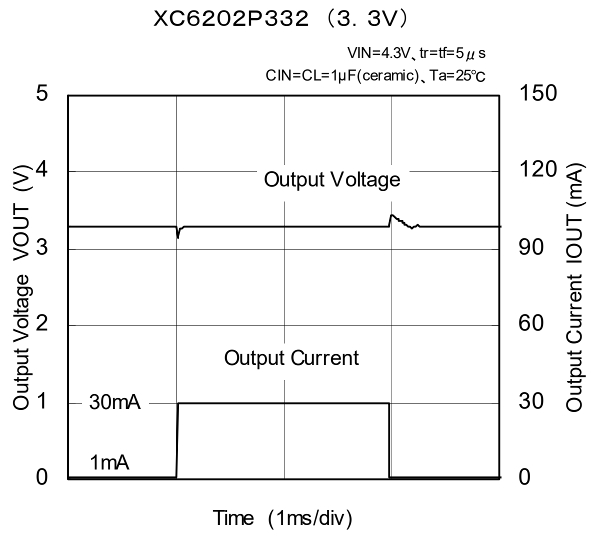


(8) Input Transient Response 2





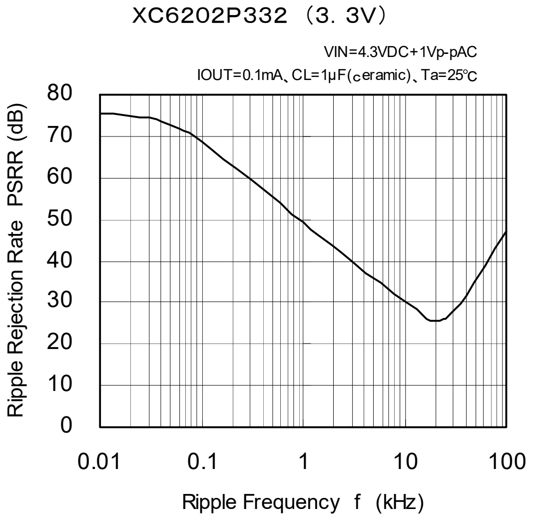
(9) Load Transient Response

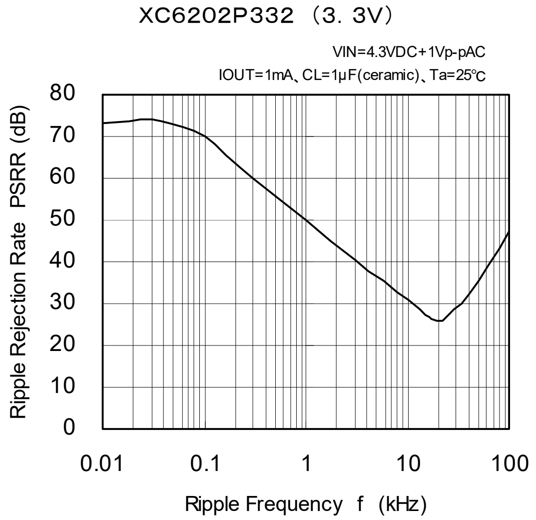


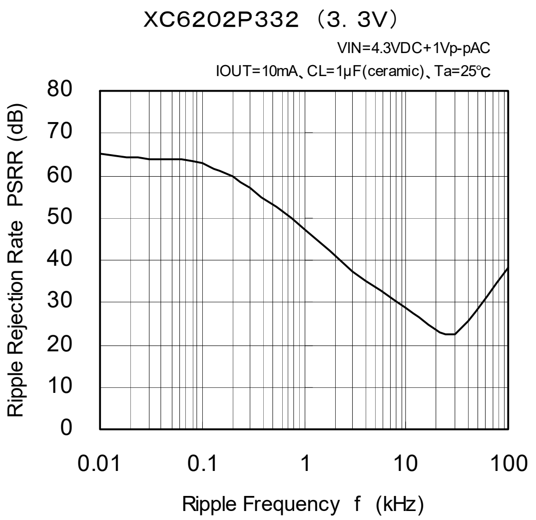
■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

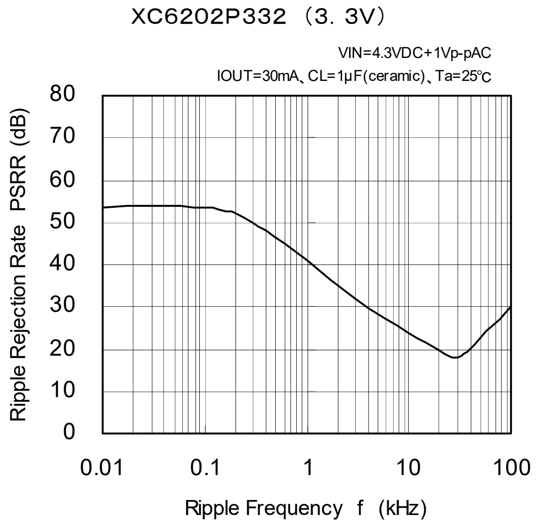
●XC6202P332 (Continued)

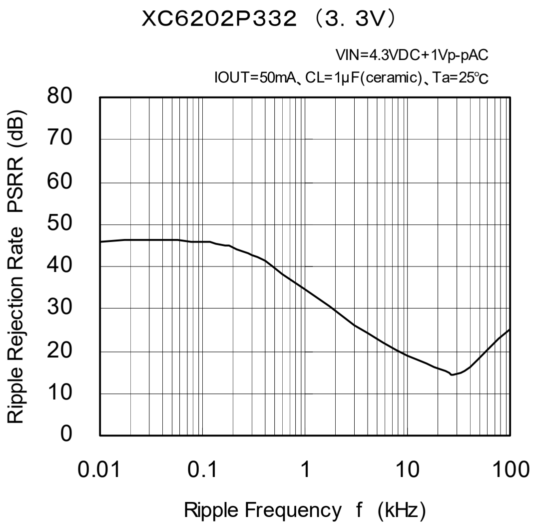
(10) Ripple Rejection Rate







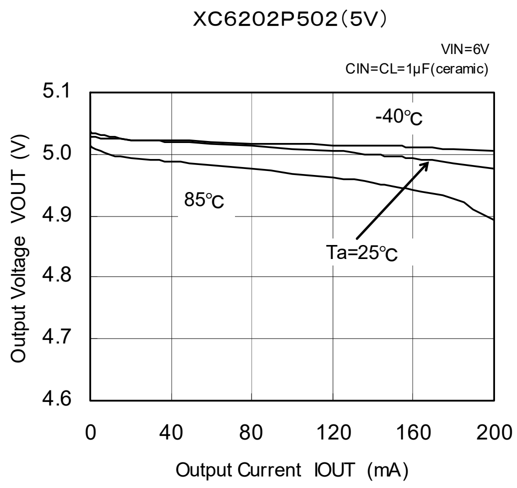


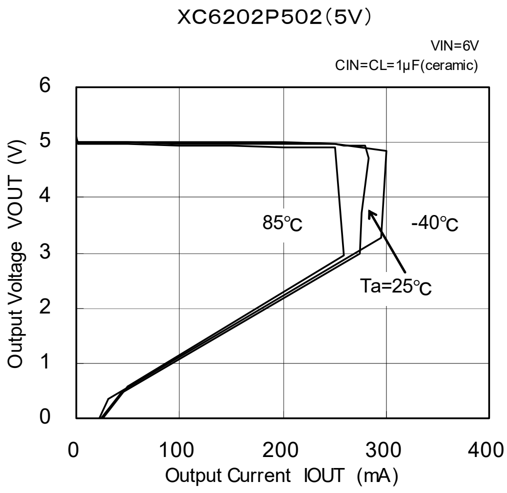


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

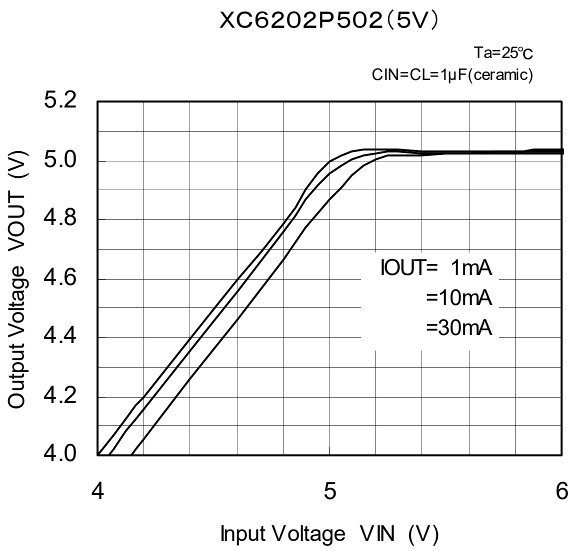
●XC6202P502

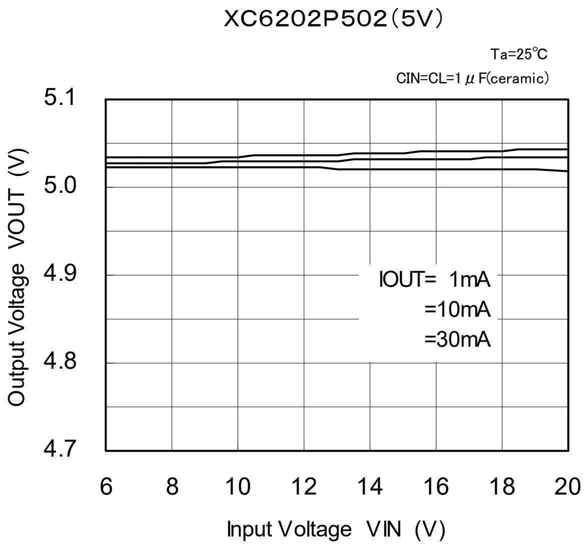
(1) Output Voltage vs. Output Current



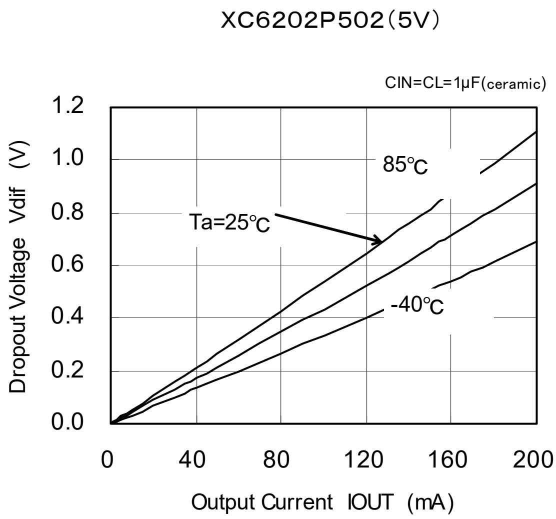


(2) Output Voltage vs. Input Voltage





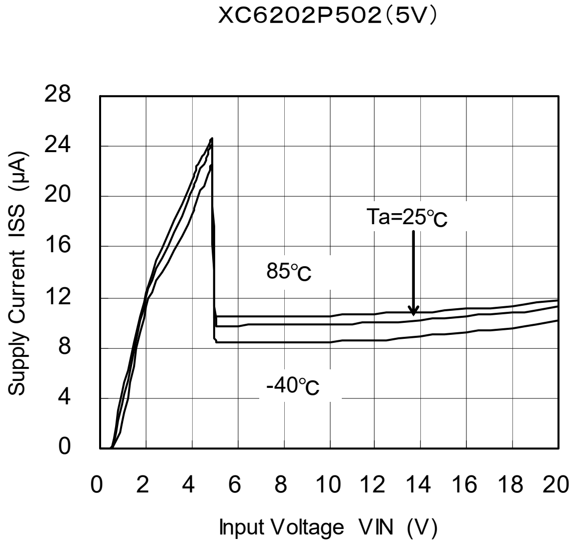
(3) Dropout Voltage vs. Output Current

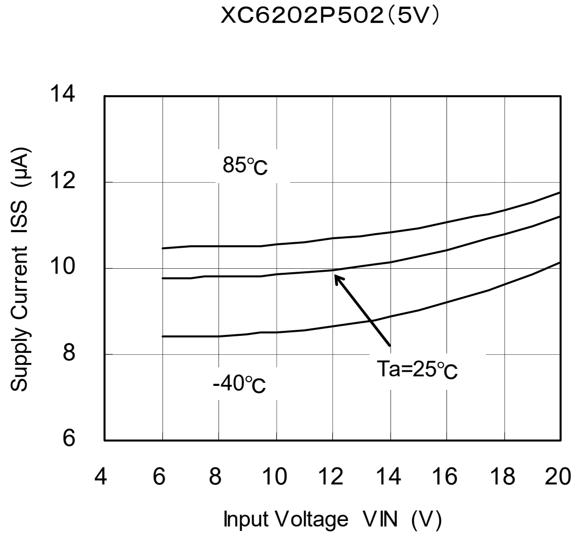


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

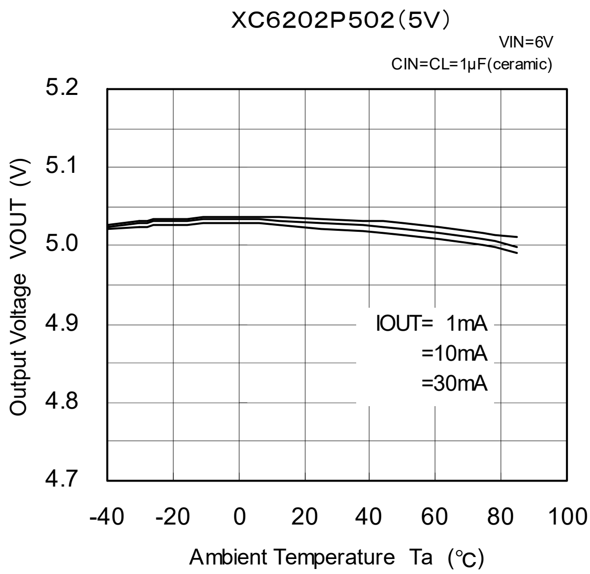
●XC6202P502 (Continued)

(4) Supply Current vs. Input Voltage

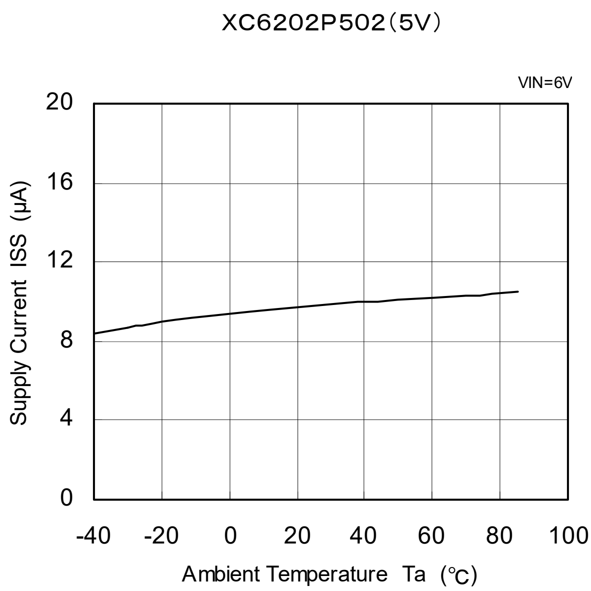




(5) Output Voltage vs. Ambient Temperature



(6) Supply Current vs. Ambient Temperature

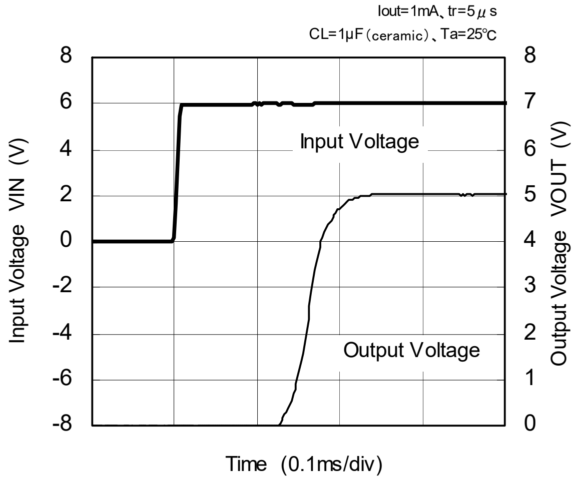


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

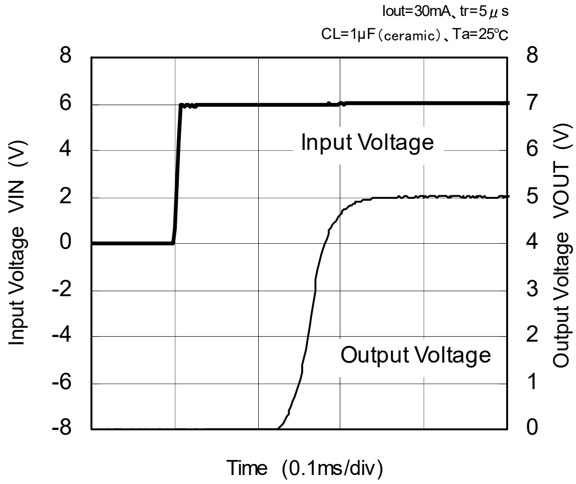
●XC6202P502 (Continued)

(7) Input Transient Response 1

XC6202P502(5V)

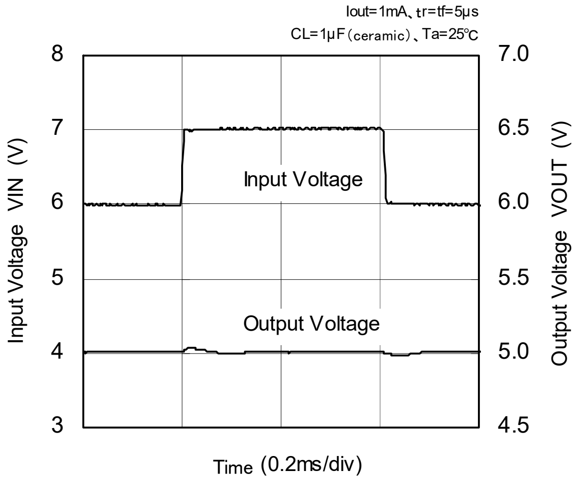


XC6202P502(5V)

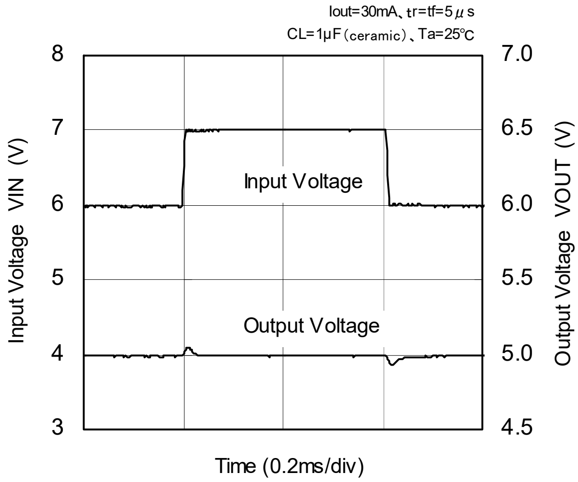


(8) Input Transient Response 2

XC6202P502(5V)

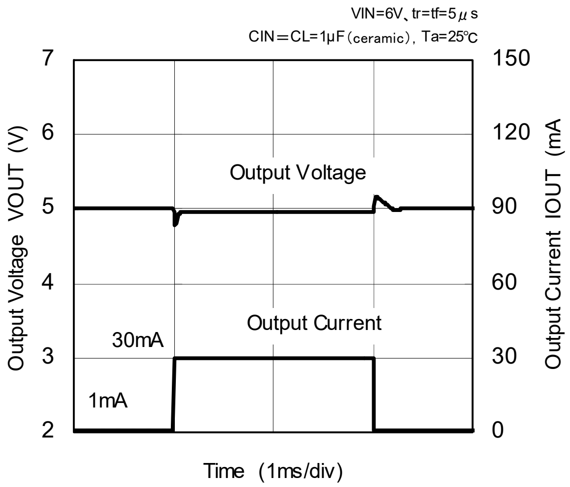


XC6202P502(5V)



(9) Load Transient Response

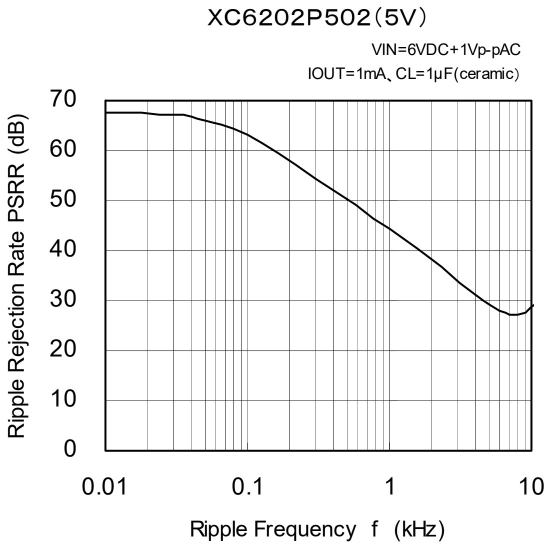
XC6202P502(5V)

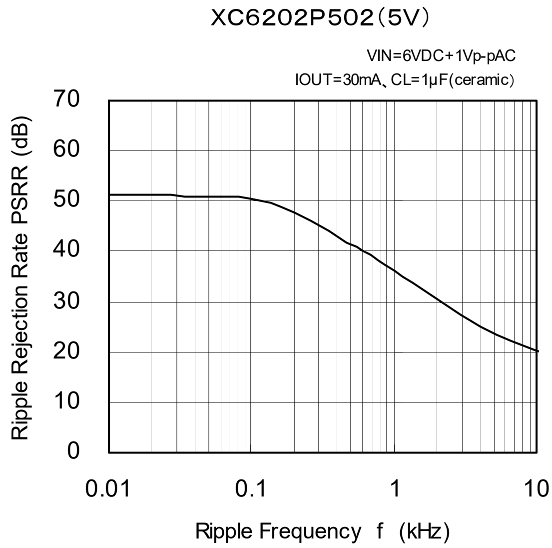


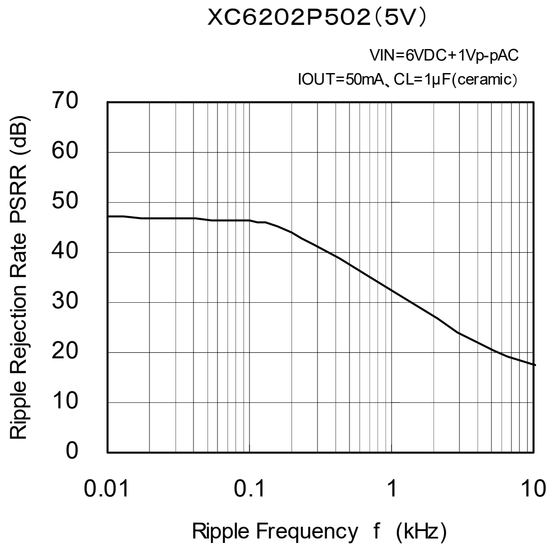
■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202P502 (Continued)

(10) Ripple Rejection Rate



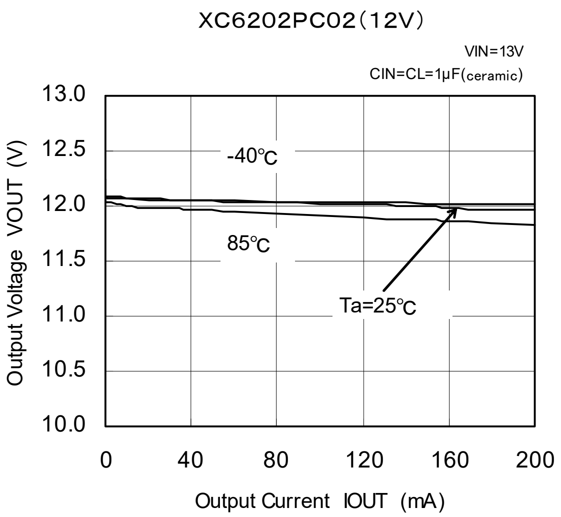


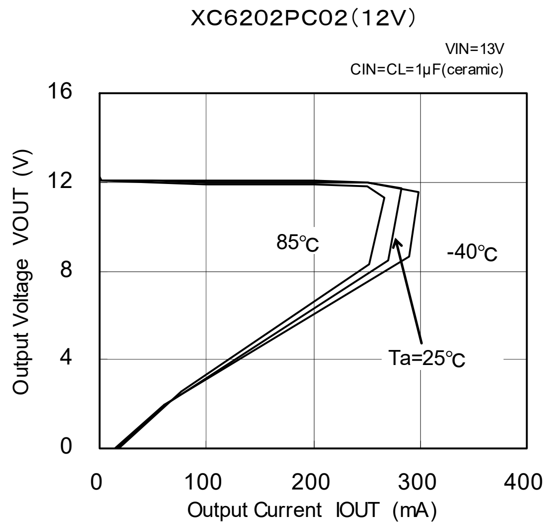


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

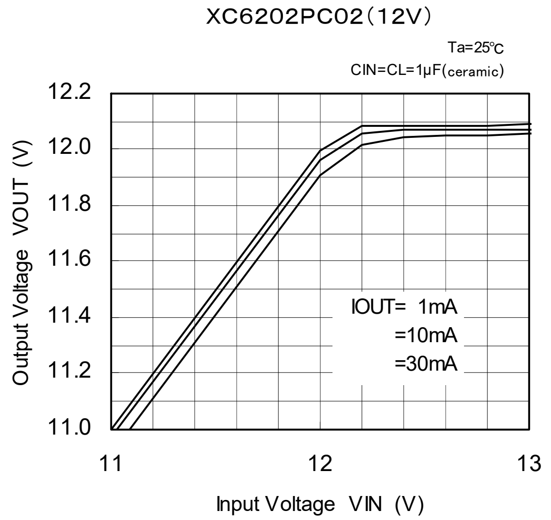
●XC6202PC02

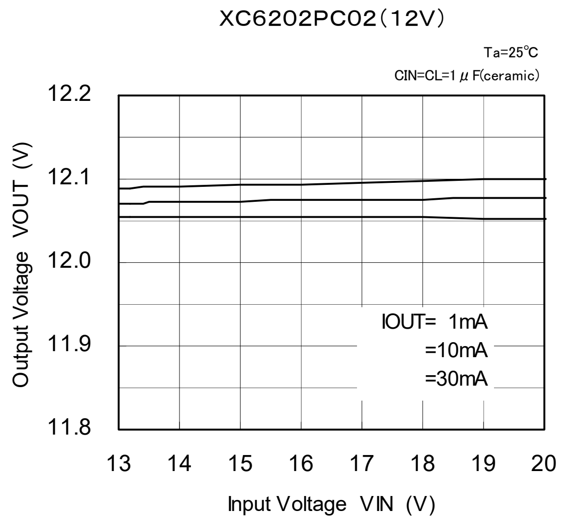
(1) Output Voltage vs. Output Current



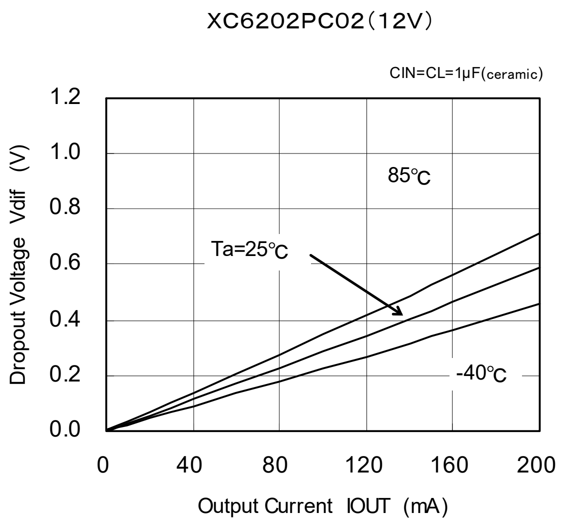


(2) Output Voltage vs. Input Voltage





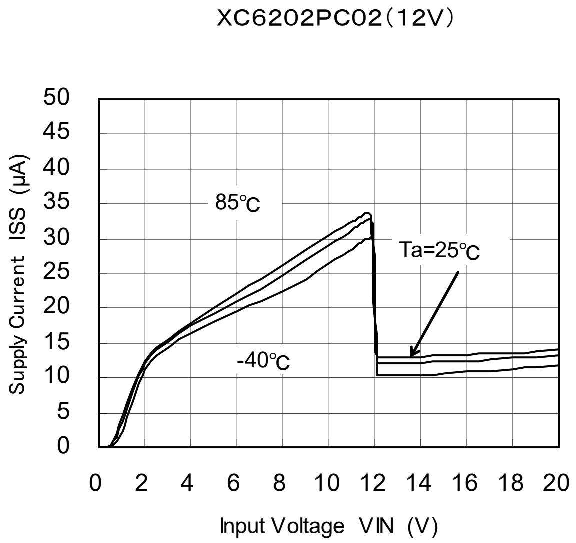
(3) Dropout Voltage vs. Output Current

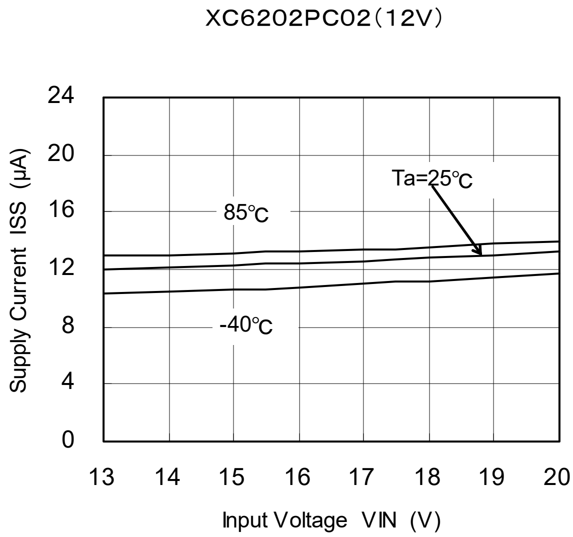


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

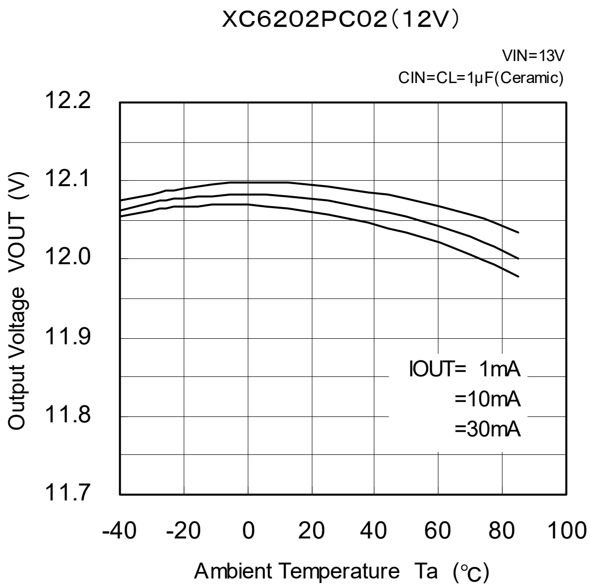
●XC6202PC02 (Continued)

(4) Supply Current vs. Input Voltage

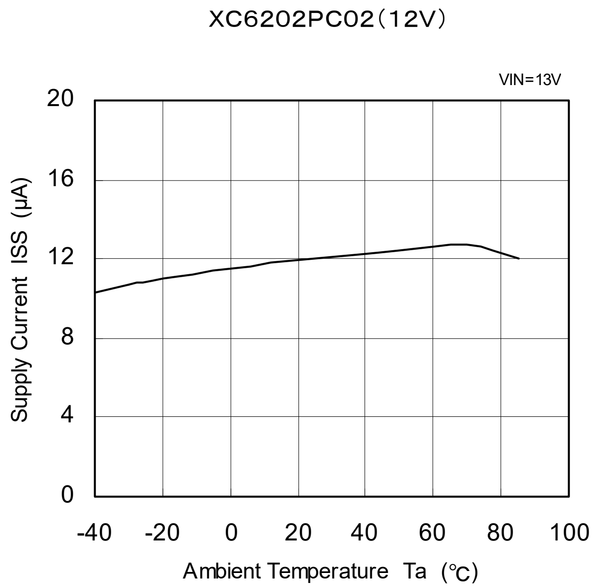




(5) Output Voltage vs. Ambient Temperature



(6) Supply Current vs. Ambient Temperature

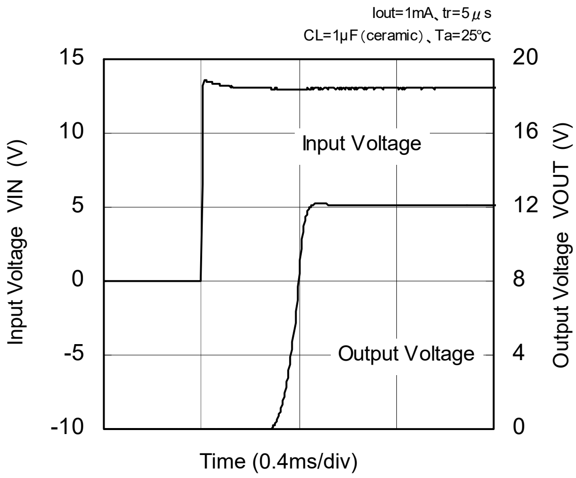


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

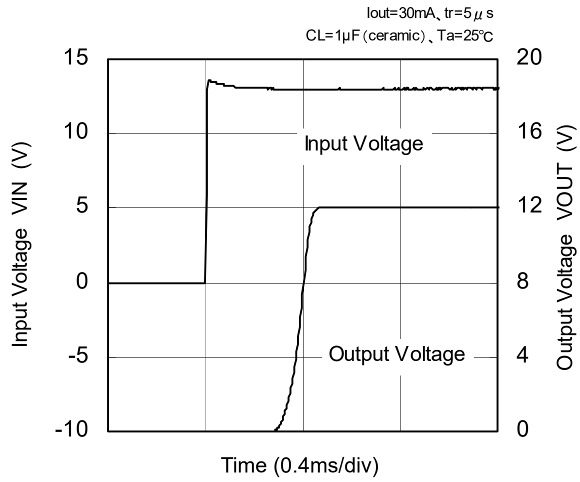
●XC6202PC02 (Continued)

(7) Input Transient Response 1

XC6202PC02(12V)

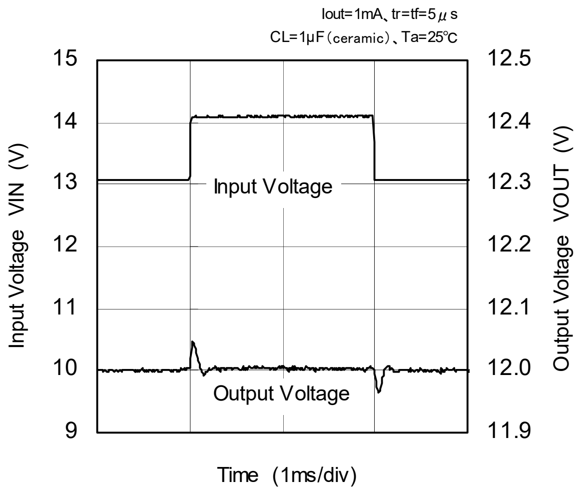


XC6202PC02(12V)

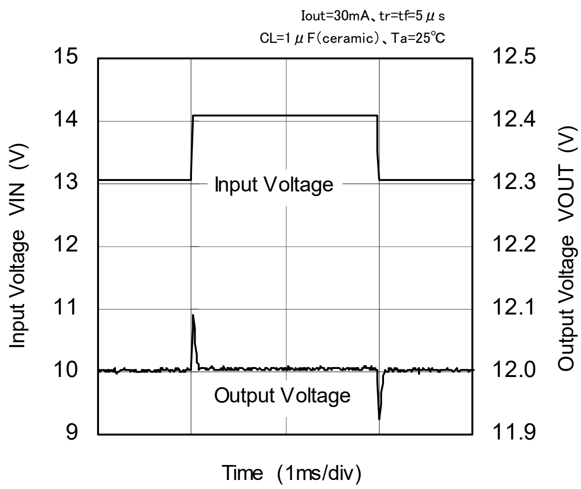


(8) Input Transient Response 2

XC6202PC02(12V)

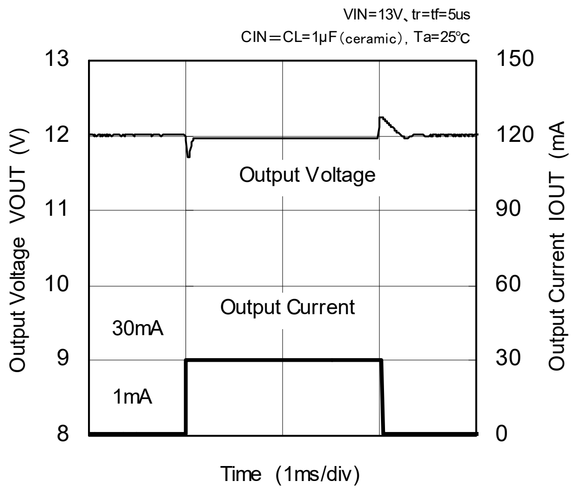


XC6202PC02(12V)



(9) Load Transient Response

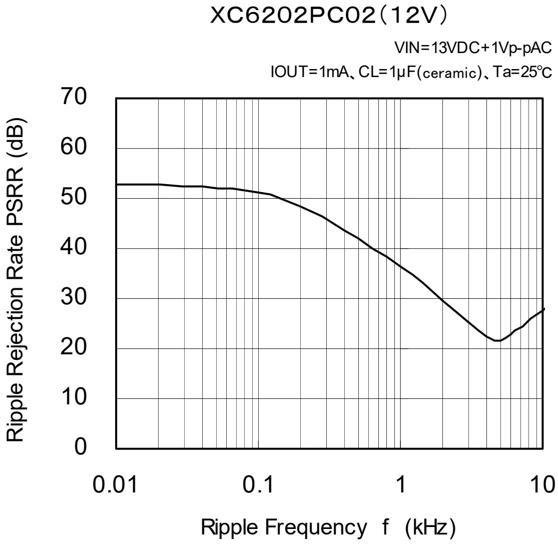
XC6202PC02(12V)

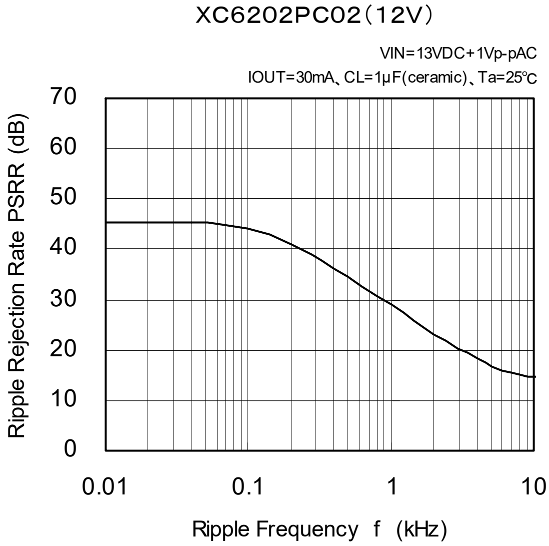


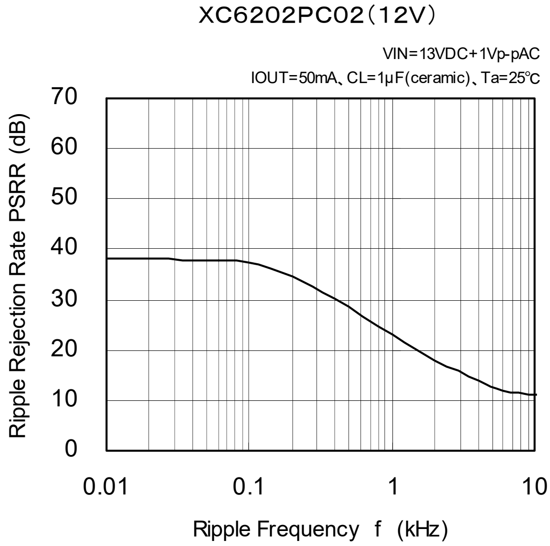
■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202PC02 (Continued)

(10) Ripple Rejection Rate



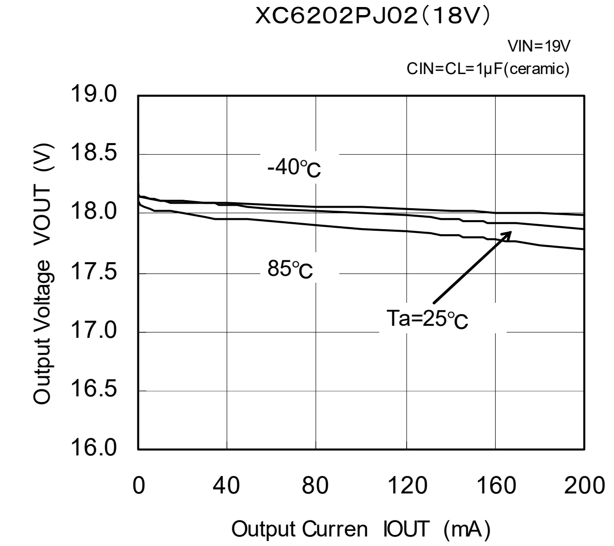


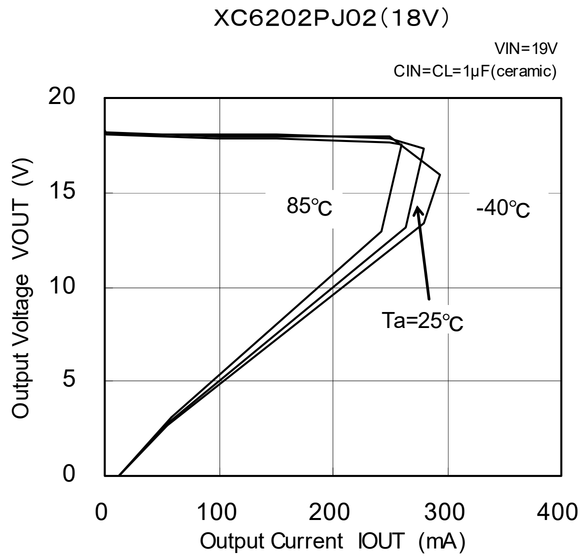


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202PJ02

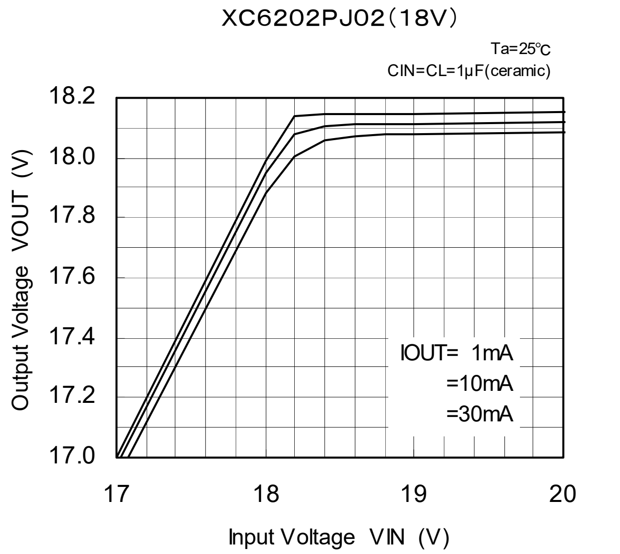
(1) Output Voltage vs. Output

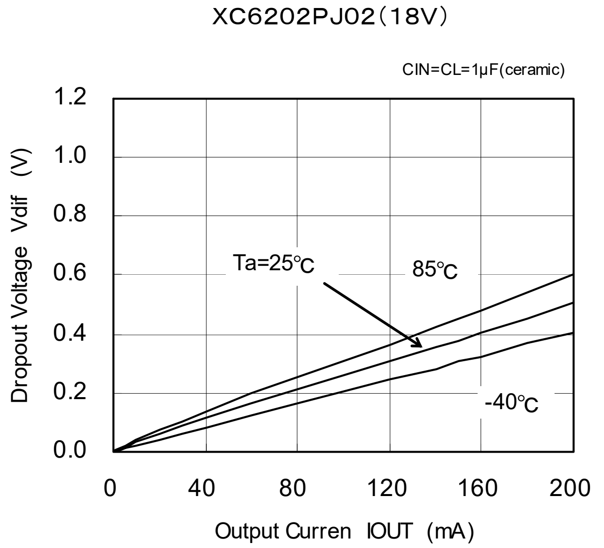




(2) Output Voltage vs. Input Voltage

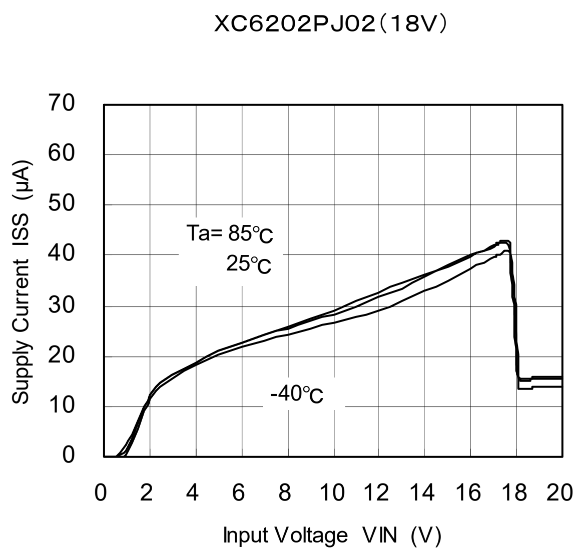
(3) Dropout Voltage vs. Output Current

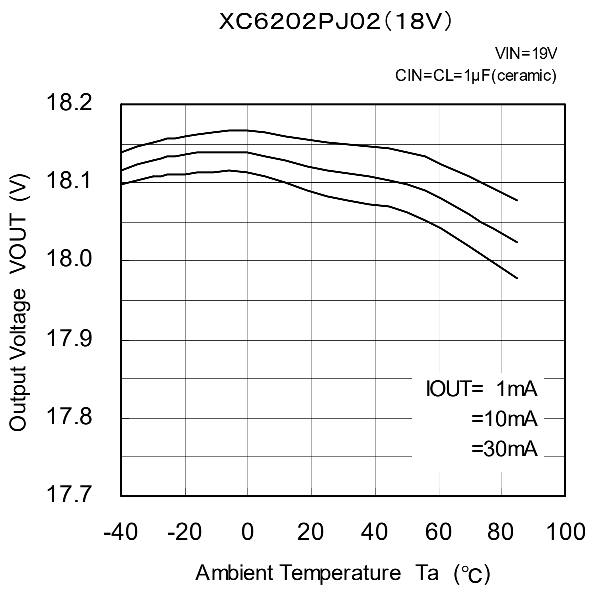




(4) Supply Current vs. Input Voltage

(5) Output Voltage vs. Ambient Temperature



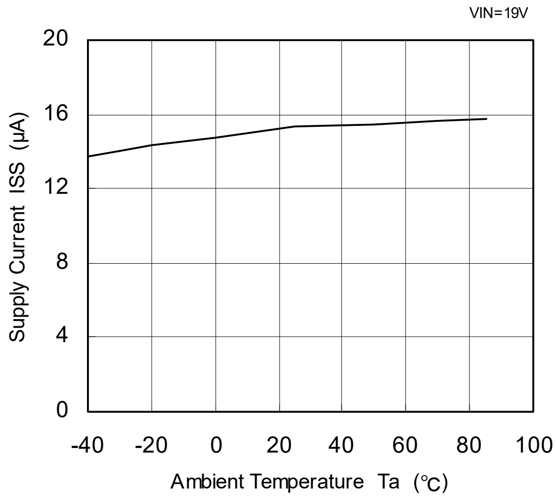


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202PJ02 (Continued)

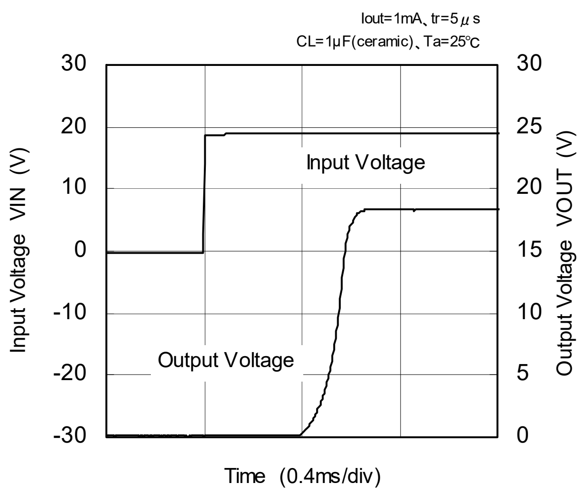
(6) Supply Current vs. Ambient Temperature

XC6202PJ02(18V)

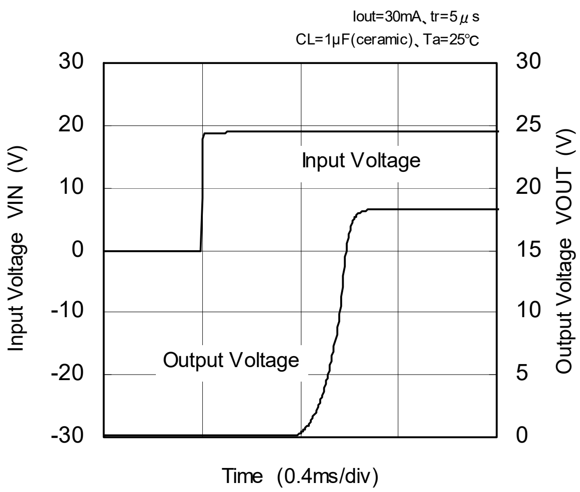


(7) Input Transient Response 1

XC6202PJ02(18V)

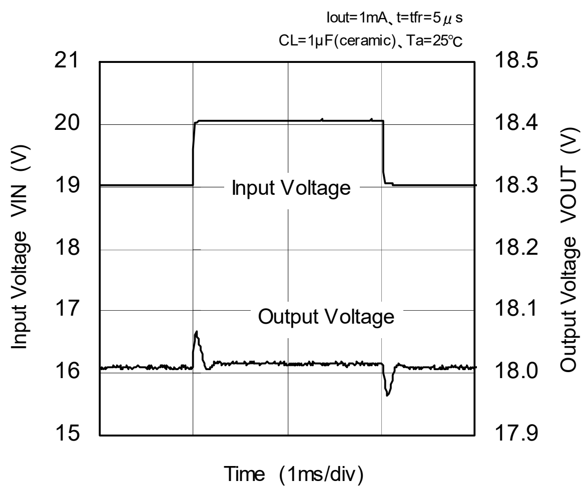


XC6202PJ02(18V)

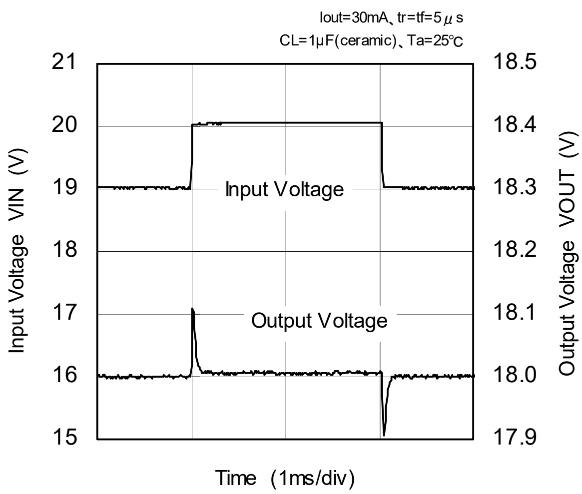


(8) Input Transient Response 2

XC6202PJ02(18V)



XC6202PJ02(18V)

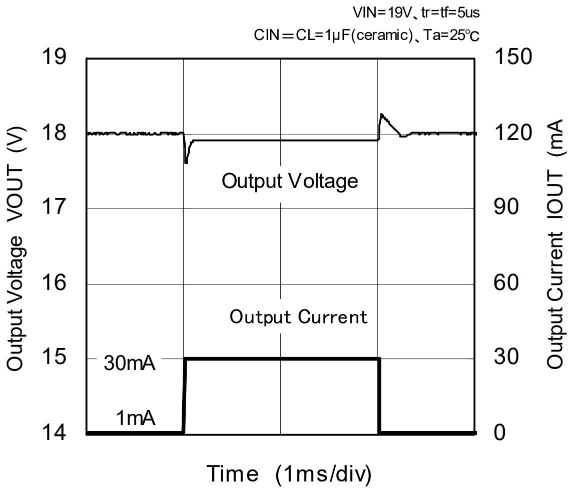


■TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

●XC6202PJ02 (Continued)

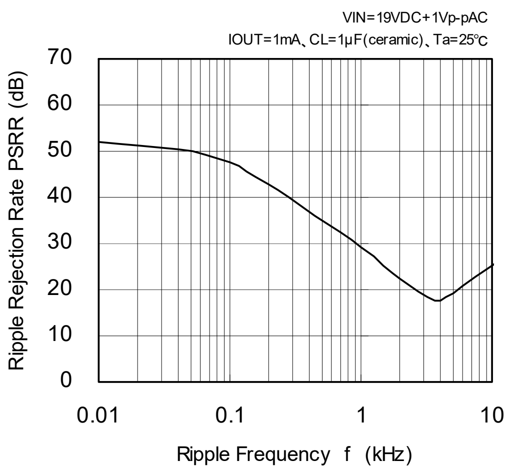
(9) Load Transient Response

XC6202PJ02(18V)

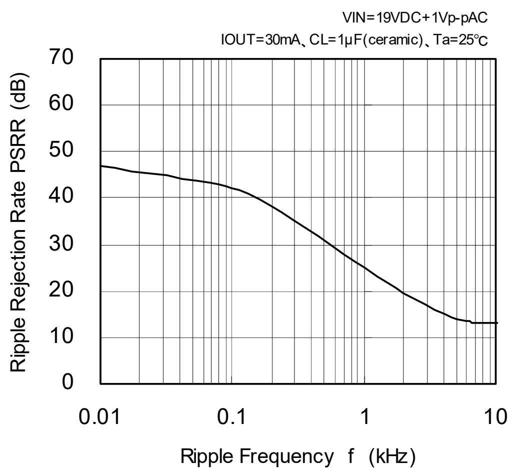


(10) Ripple Rejection Rate

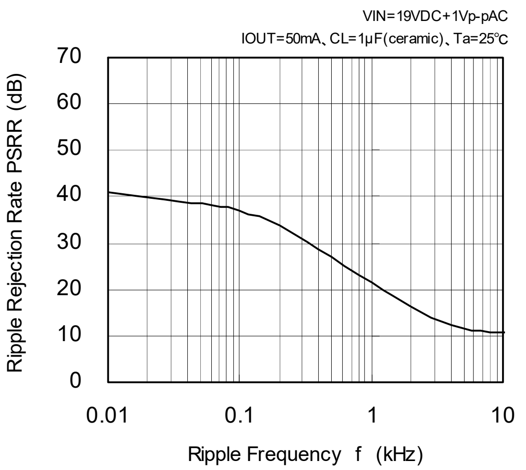
XC6202PJ02(18V)



XC6202PJ02(18V)



XC6202PJ02(18V)



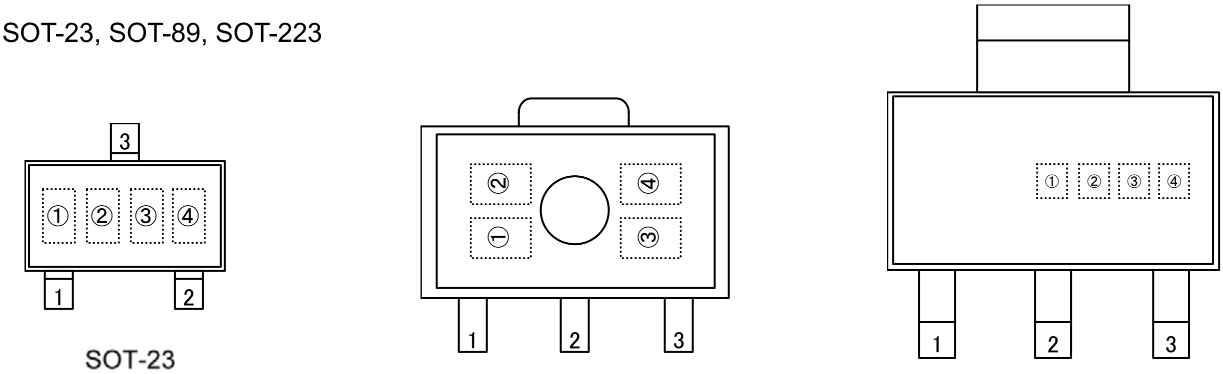
■PACKAGING INFORMATION

For the latest package information go to, www.torexsemi.com/technical-support/packages

PACKAGE	OUTLINE / LAND PATTERN	THERMAL CHARACTERISTICS	
SOT-23	SOT-23 PKG	Standard Board	SOT-23 Power Dissipation
SOT-223	SOT-223 PKG	Standard Board	SOT-223 Power Dissipation
SOT-89	SOT-89 PKG	Standard Board	SOT-89 Power Dissipation
USP-6B	USP-6B PKG	Standard Board	USP-6B Power Dissipation

■MARKING RULE

●SOT-23, SOT-89, SOT-223



SOT-23
(TOP VIEW)

SOT-89
(TOP VIEW)

SOT-223
(TOP VIEW)

(mark header : ①~③) ※mark header is a mark that is not changed by LOT

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	

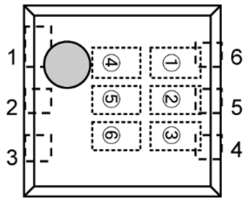
③ represents output voltage

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.

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.

2. The information in this datasheet is intended to illustrate the operation and characteristics of our products. We neither make warranties or representations with respect to the accuracy or completeness of the information contained in this datasheet nor grant any license to any intellectual property rights of ours or any third party concerning with the information in this datasheet.

3. Applicable export control laws and regulations should be complied and the procedures required by such laws and regulations should also be followed, when the product or any information contained in this datasheet is exported.

4. The product is neither intended nor warranted for use in equipment of systems which require extremely high levels of quality and/or reliability and/or a malfunction or failure which may cause loss of human life, bodily injury, serious property damage including but not limited to devices or equipment used in 1) nuclear facilities, 2) aerospace industry, 3) medical facilities, 4) automobile industry and other transportation industry and 5) safety devices and safety equipment to control combustions and explosions. Do not use the product for the above use unless agreed by us in writing in advance.

5. Although we make continuous efforts to improve the quality and reliability of our products; nevertheless Semiconductors are likely to fail with a certain probability. So in order to prevent personal injury and/or property damage resulting from such failure, customers are required to incorporate adequate safety measures in their designs, such as system fail safes, redundancy and fire prevention features.

6. Our products are not designed to be Radiation-resistant.

7. Please use the product listed in this datasheet within the specified ranges.

8. We assume no responsibility for damage or loss due to abnormal use.

TOREX SEMICONDUCTOR LTD.