

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, TO-92, SOT-223 and USP-6B packages are available.

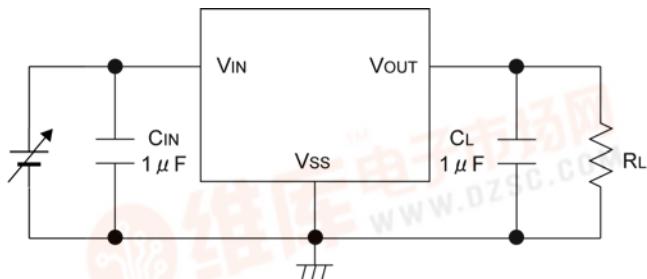
APPLICATIONS

- Battery powered equipment
- Reference voltage
- Cameras, video cameras
- Palmtops

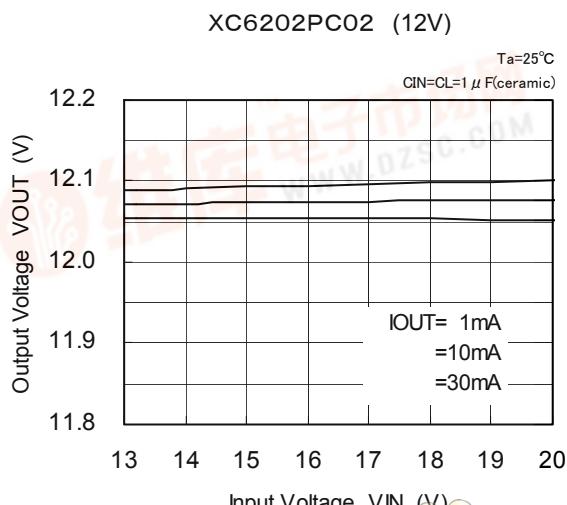
FEATURES

Maximum Output Current	: 150mA (within Pd)
Maximum Operational Voltage	: 20V
Output Voltage Range	: 1.8V ~ 18V (0.1V increments)
Highly Accurate	: $\pm 2\%$
Low Power Consumption	: 10 μ A (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 TO-92 SOT-223 USP-6B
Environmentally Friendly	: EU RoHS Compliant, Pb Free

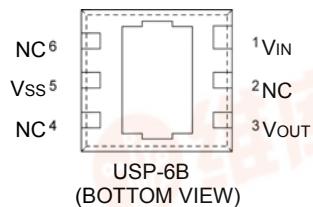
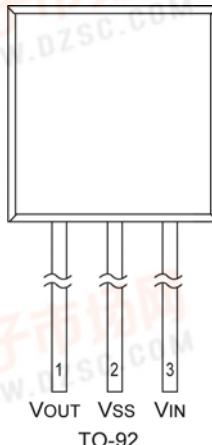
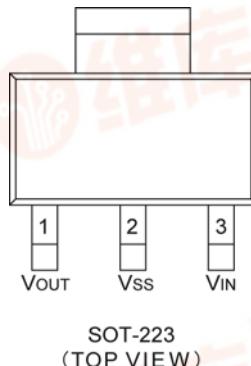
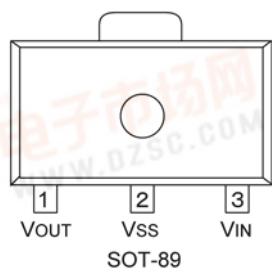
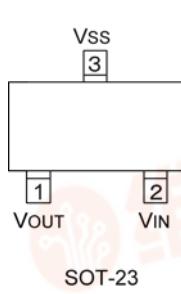
TYPICAL APPLICATION CIRCUIT



TYPICAL PERFORMANCE CHARACTERISTICS



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	FUNCTION
SOT-23	SOT-89/TO-92/ 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

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PRODUCT CLASSIFICATION

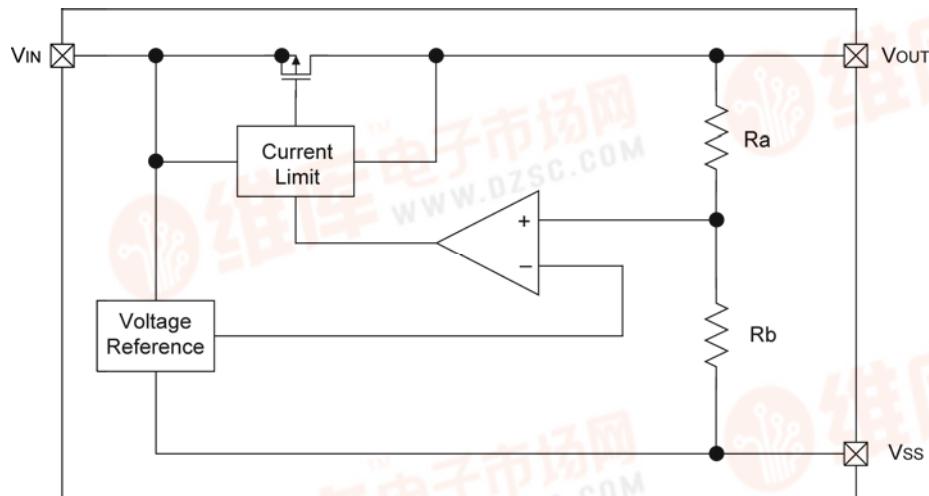
Ordering Information

XC6202P - (*1)

DESIGNATOR	ITEM	SYMBOL	DESCRIPTION
	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. VOUT= 3.0V :3, :0 VOUT= 12V :C, :0 VOUT= 15V :F, :0
	Accuracy	2	: ±2%
④⑤-⑥ (*1)	Packages (Order Unit)	MR	: SOT-23 (3,000/Reel)
		MR-G	: SOT-23 (3,000/Reel)
		PR	: SOT-89 (1,000/Reel)
		PR-G	: SOT-89 (1,000/Reel)
		TH	: TO-92 Taping Type: Paper type (2,000/Tape)
		TH-G	: TO-92 Taping Type: Paper type (2,000/Tape)
		TB	: TO-92 Taping Type: Bag (500/Bag)
		TB-G	: TO-92 Taping Type: Bag (500/Bag)
		FR	: SOT-223 (1,000/Reel)
		FR-G	: SOT-223 (1,000/Reel)
		DR	: USP-6B (3,000/Reel)
		DR-G	: USP-6B (3,000/Reel)

(*1) The “-G” suffix indicates that the products are Halogen and Antimony free as well as being fully RoHS compliant.

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

T_a = 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	250	mW
	SOT-89	500	
	TO-92	300	
	USP-6B	120	
	SOT-223	1,200*	
Operating Temperature Range	T _{OPR}	-40 ~ +85	
Storage Temperature Range	T _{STG}	-55 ~ +125	

* Circuits board mounting: Double-sided board

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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	
Maximum Output Current	I _{OUTmax}	V _{IN} =2.8V V _{OUT} = V _{OUT(E)} × 0.9	60	-	-	mA	
Load Regulation	V _{OUT}	V _{IN} =2.8V 1mA I _{OUT} 60mA	-	10	80	mV	
Dropout Voltage ^(*)3)	V _{dif1}	I _{OUT} =30mA	-	340	470	mV	
	V _{dif2}	I _{OUT} =100mA	-	1000	1500		
Supply Current	I _{SS}	V _{IN} =2.8V	-	10	24	μA	
Line Regulation	$\frac{V_{OUT}}{(V_{IN} - V_{OUT})}$	I _{OUT} =1mA 2.8V V _{IN} 20V	-	0.01	0.20	%/V	
Input Voltage	V _{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{V_{OUT}}{(T_a - V_{OUT})}$	I _{OUT} =30mA -40 Ta 85	-	± 100	-	ppm/	
Short-circuit Current	I _{short}	V _{IN} =3.8V	-	40	-	mA	

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	
Maximum Output Current	I _{OUTmax}	V _{IN} =4.3V V _{OUT} = V _{OUT(E)} × 0.9	150	-	-	mA	
Load Regulation	V _{OUT}	V _{IN} =4.3V 1mA I _{OUT} 100mA	-	25	90	mV	
Dropout Voltage ^(*)3)	V _{dif1}	I _{OUT} =30mA	-	200	280	mV	
	V _{dif2}	I _{OUT} =100mA	-	670	900		
Supply Current	I _{SS}	V _{IN} =4.3V	-	10	24	μA	
Line Regulation	$\frac{V_{OUT}}{(V_{IN} - V_{OUT})}$	I _{OUT} =1mA 4.3V V _{IN} 20V	-	0.01	0.20	%/V	
Input Voltage	V _{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{V_{OUT}}{(T_a - V_{OUT})}$	I _{OUT} =30mA -40 Ta 85	-	± 100	-	ppm/	
Short-circuit Current	I _{short}	V _{IN} =5.3V	-	40	-	mA	

XC6202 Series

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ELECTRICAL CHARACTERISTICS (Continued)

XC6202P502 V_{OUT(T)}=5.0V ^{(*)1}

T_a=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	
Maximum Output Current	I _{OUTmax}	V _{IN} =6V V _{OUT} = V _{OUT(E)} × 0.9	200	-	-	mA	
Load Regulation	V _{OUT}	V _{IN} =6V 1mA I _{OUT} 100mA	-	30	100	mV	
Dropout Voltage ^{(*)3}	V _{dif1}	I _{OUT} =30mA	-	130	190	mV	
	V _{dif2}	I _{OUT} =100mA	-	440	550		
Supply Current	I _{SS}	V _{IN} =6V	-	10	24	μA	
Line Regulation	$\frac{V_{OUT}}{(V_{IN} - V_{OUT})}$	I _{OUT} =1mA 6V V _{IN} 20V	-	0.01	0.20	%/V	
Input Voltage	V _{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{V_{OUT}}{(T_a - V_{OUT})}$	I _{OUT} =30mA -40 T _a 85	-	± 100	-	ppm/	
Short-circuit Current	I _{short}	V _{IN} =7V	-	40	-	mA	

XC6202PC02 V_{OUT(T)}=12V ^{(*)1}

T_a=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	
Maximum Output Current	I _{OUTmax}	V _{IN} =13V V _{OUT} = V _{OUT(E)} × 0.9	200	-	-	mA	
Load Regulation	V _{OUT}	V _{IN} =13V 1mA I _{OUT} 100mA	-	60	230	mV	
Dropout Voltage ^{(*)3}	V _{dif1}	I _{OUT} =30mA	-	90	150	mV	
	V _{dif2}	I _{OUT} =100mA	-	290	380		
Supply Current	I _{SS}	V _{IN} =13V	-	12	28	μA	
Line Regulation	$\frac{V_{OUT}}{(V_{IN} - V_{OUT})}$	I _{OUT} =1mA 13V V _{IN} 20V	-	0.01	0.20	%/V	
Input Voltage	V _{IN}		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{V_{OUT}}{(T_a - V_{OUT})}$	I _{OUT} =30mA -40 T _a 85	-	± 100	-	ppm/	
Short-circuit Current	I _{short}	V _{IN} =14V	-	40	-	mA	



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ELECTRICAL CHARACTERISTICS (Continued)

XC6202PJ02 VOUT(T)=18V (*1)

Ta=25

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage	Vout(E) (*2)	VIN=19V IOUT=30mA	17.640	18.000	18.360	V	
Maximum Output Current	IOUTmax	VIN=19V VOUT = VOUT(E) × 0.9	200	-	-	mA	
Load Regulation	VOUT	VIN=19V 1mA IOUT 100mA	-	120	380	mV	
Dropout Voltage (*3)	Vdif1	IOUT=30mA	-	80	150	mV	
	Vdif2	IOUT=100mA	-	280	380		
Supply Current	Iss	VIN=19V	-	15	30	μA	
Line Regulation	$\frac{VOUT}{(VIN - VOUT)}$	IOUT=1mA 19V VIN 20V	-	0.01	0.20	%/V	
Input Voltage	VIN		-	-	20	V	-
Output Voltage Temperature Characteristics	$\frac{VOUT}{(Ta - VOUT)}$	IOUT=30mA -40 Ta 85	-	± 100	-	ppm/	
Short-circuit Current	Ishort	VIN=20V	-	40	-	mA	

*1. VOUT(T) = Specified output voltage.

*2. VOUT(E) = Effective output voltage (i.e. the output voltage when "VOUT(T)+1.0V" is provided at the VIN pin while maintaining certain IOUT value).

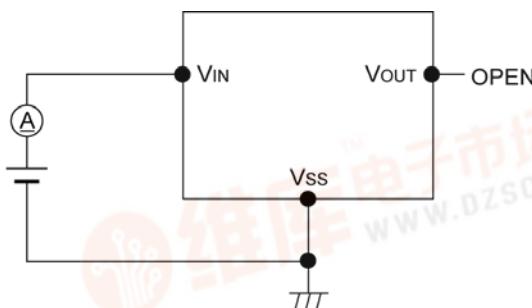
*3. Vdif = {VIN1(*5)-VOUT1(*4)}

*4. VOUT1 = A voltage equal to 98% of the output voltage when "VOUT(T) + 1.0V" is input.

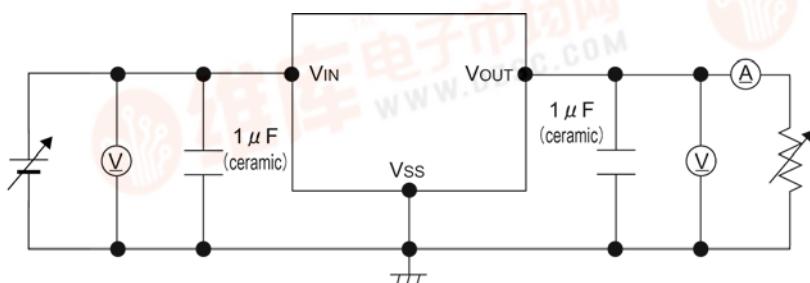
*5. VIN1 = The input voltage when VOUT1 is output following a gradual decrease in the input voltage.

TEST CIRCUITS

CIRCUIT



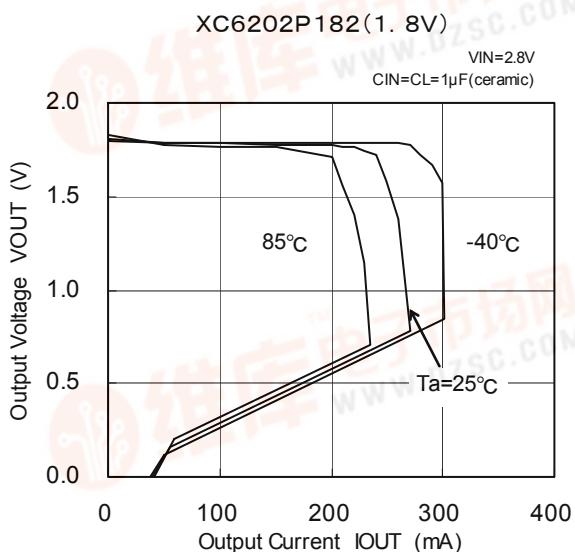
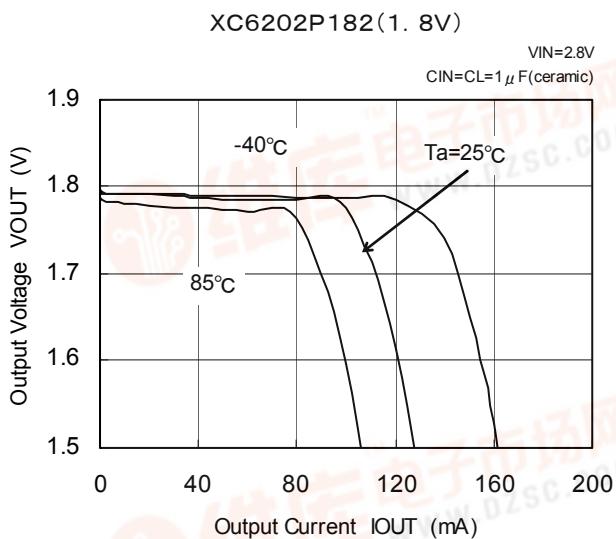
CIRCUIT



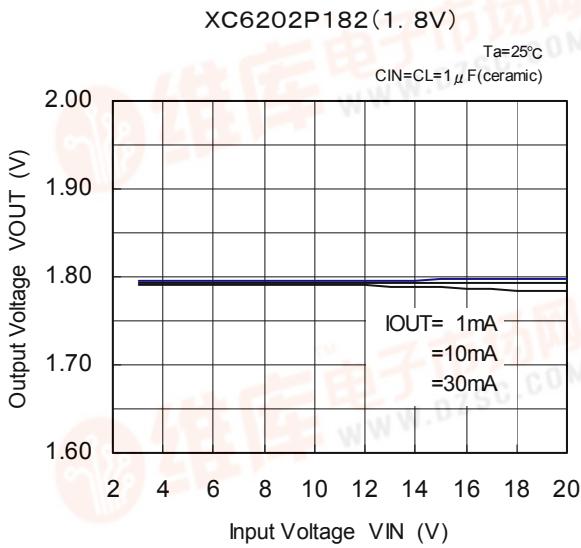
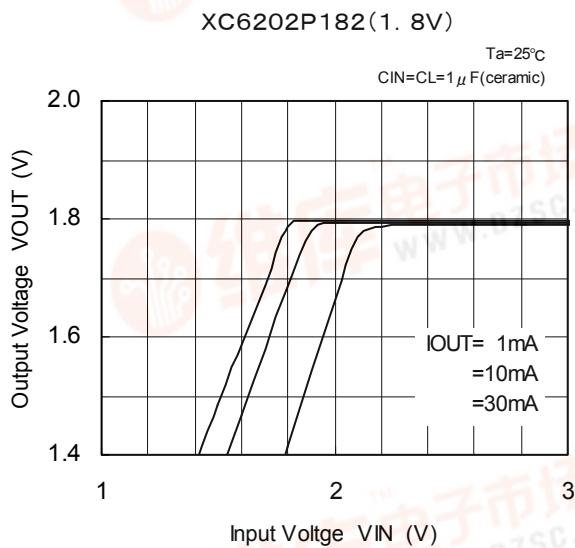
TYPICAL PERFORMANCE CHARACTERISTICS

XC6202P182

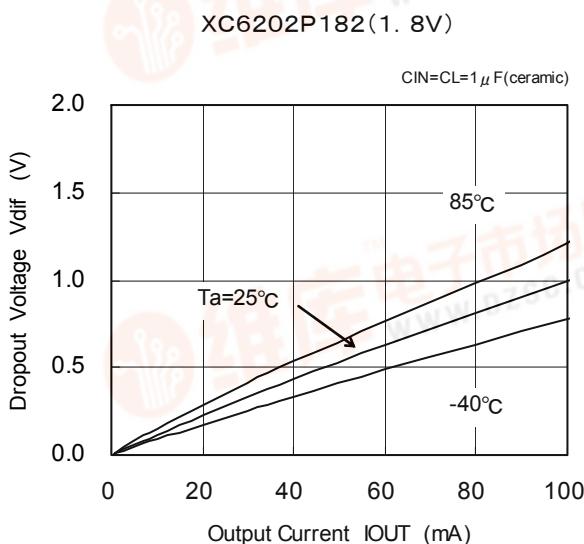
(1) Output Voltage vs. Output Current



(2) Output Voltage vs. Input Voltage



(3) Dropout Voltage vs. Output Current

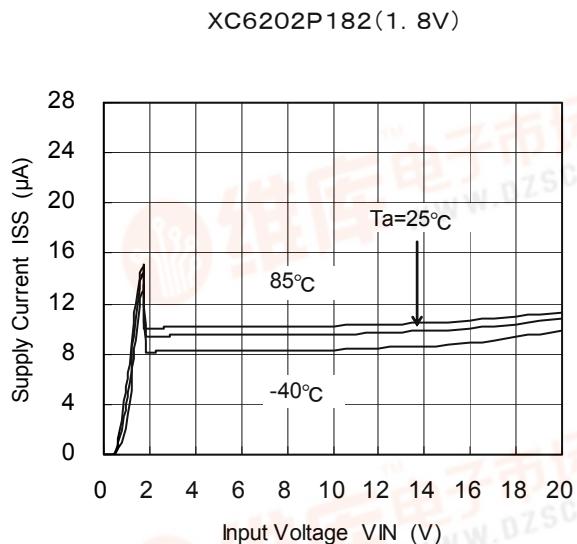


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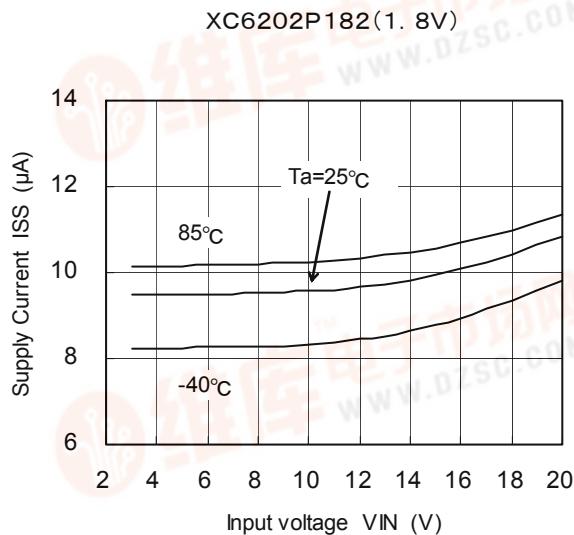
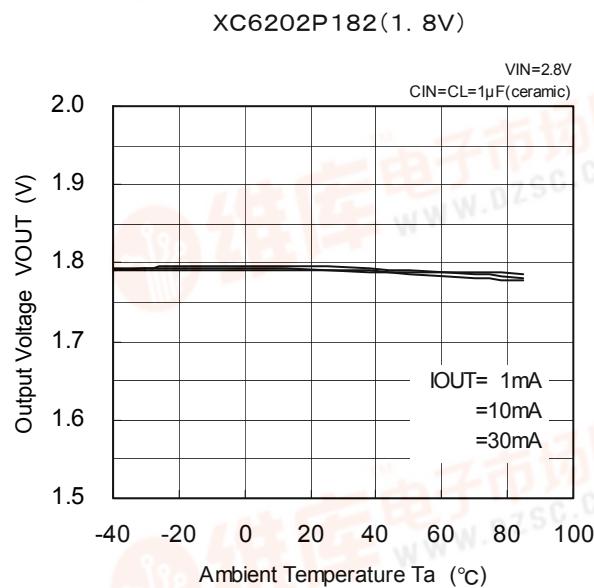
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XC6202P182 (Continued)

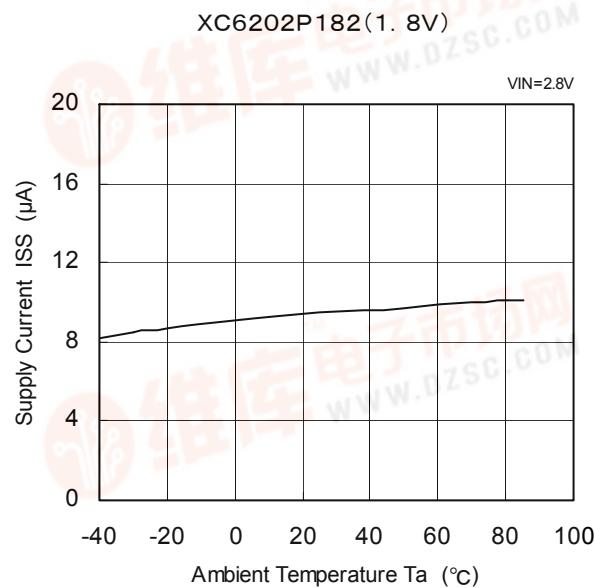
(4) Supply Current vs. Input Voltage



(5) Output Voltage vs. Ambient Temperature



(6) Supply Current vs. Ambient Temperature

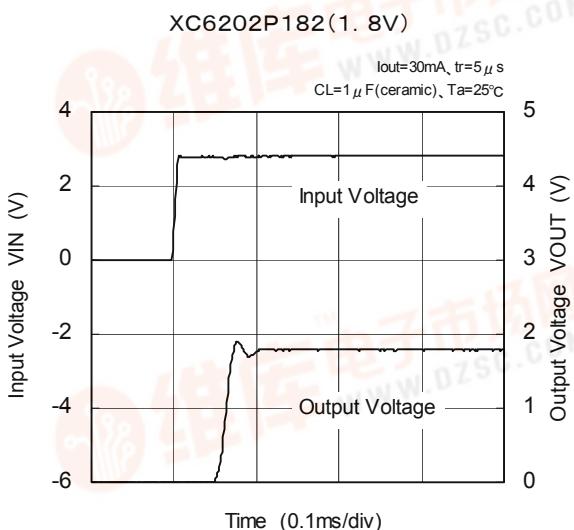
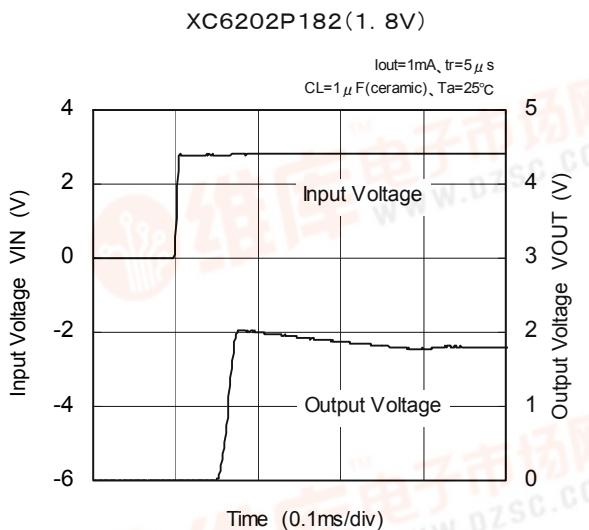


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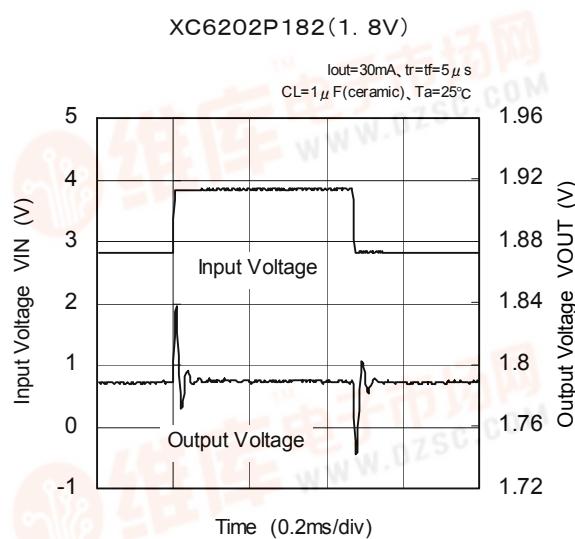
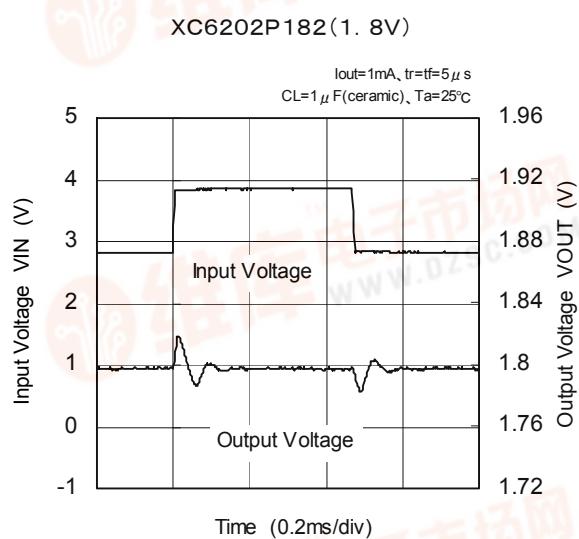
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P182 (Continued)

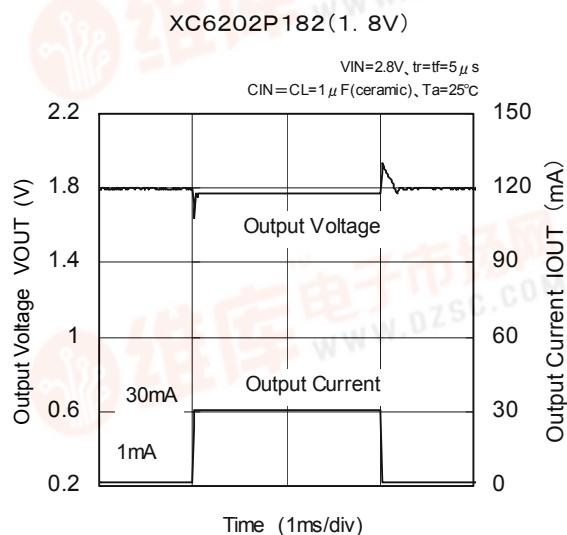
(7) Input Transient Response 1



(8) Input Transient Response 2



(9) Load Transient Response

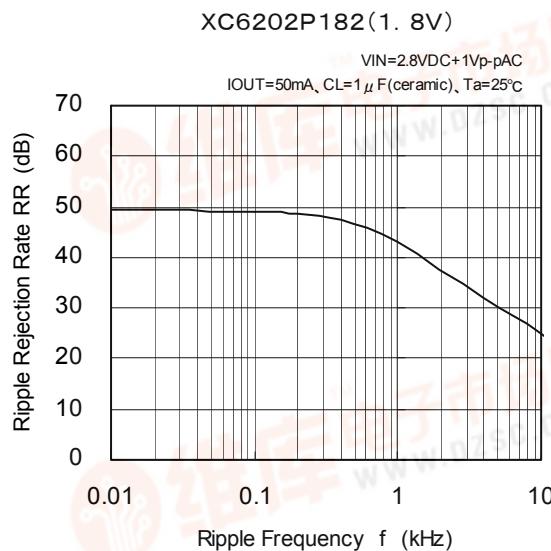
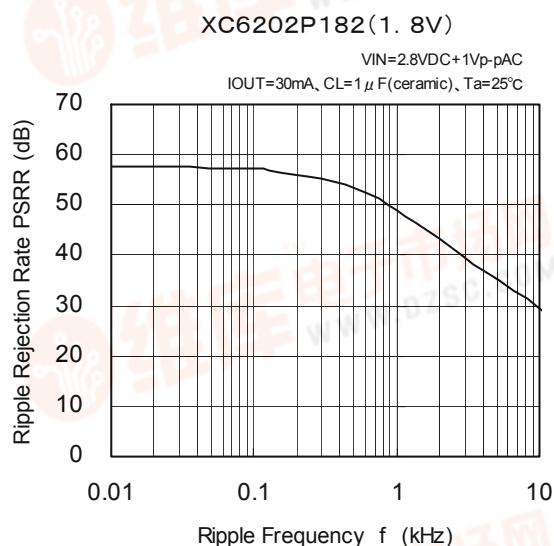
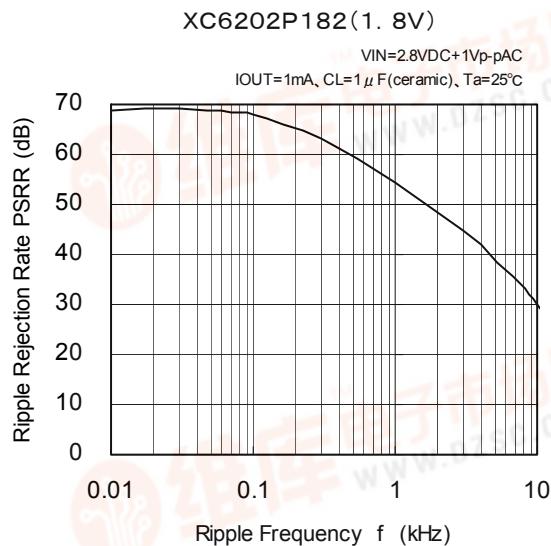


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TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P182 (Continued)

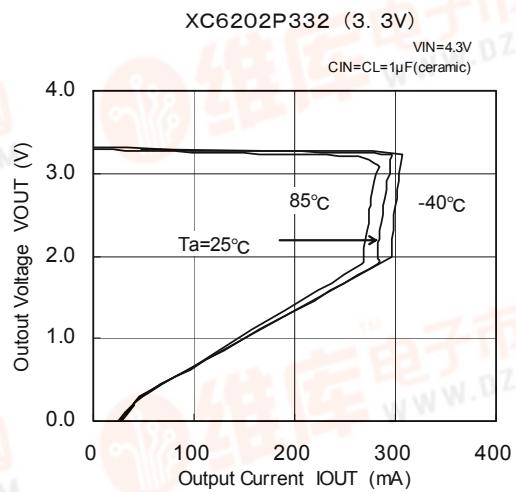
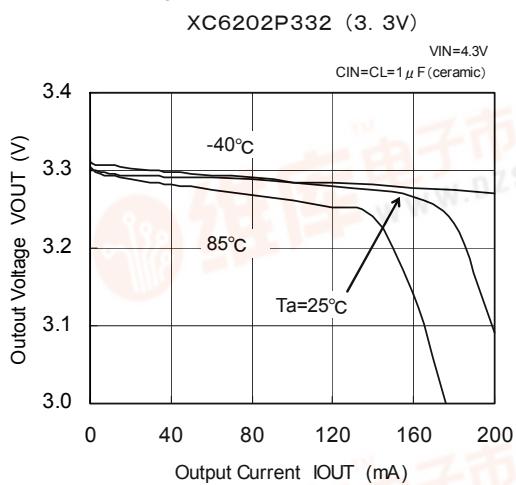
(10) Ripple Rejection Rate



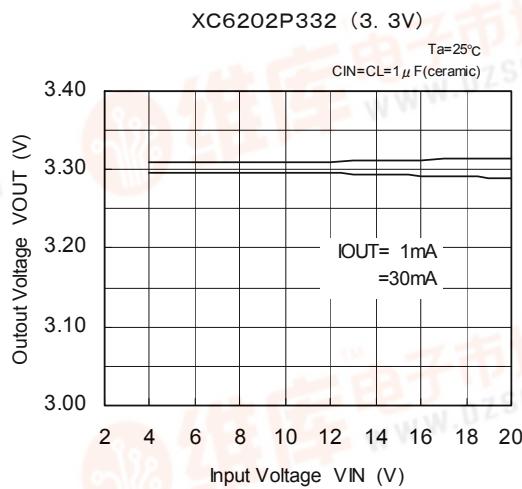
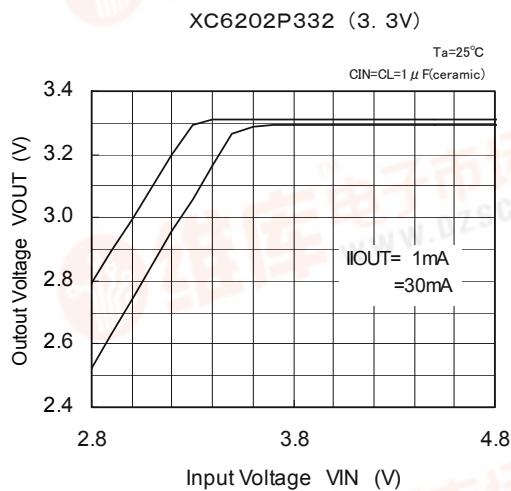
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P332

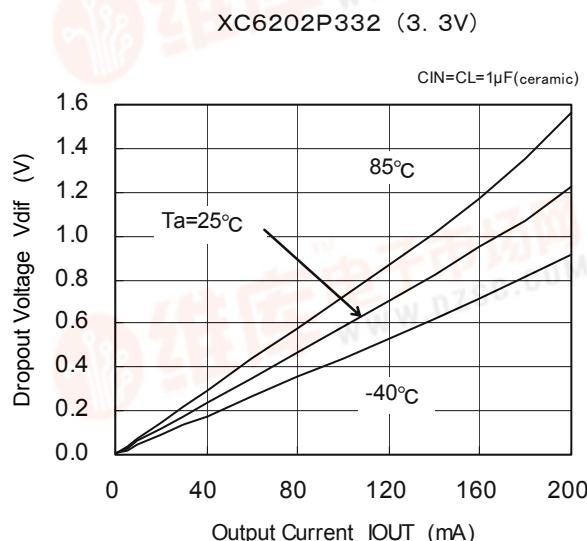
(1) Output Voltage vs. Output Current



(2) Output Voltage vs. Input Voltage



(3) Dropout Voltage vs. Output Current

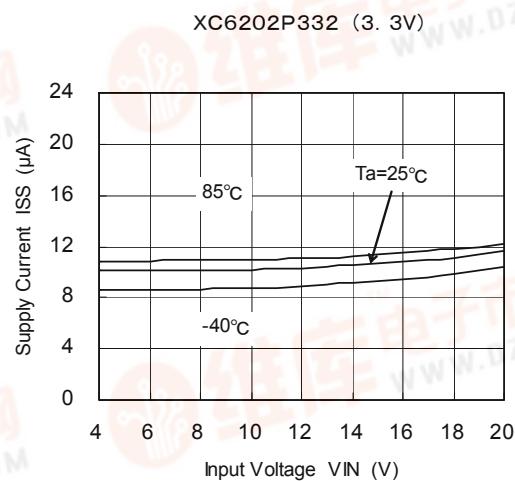
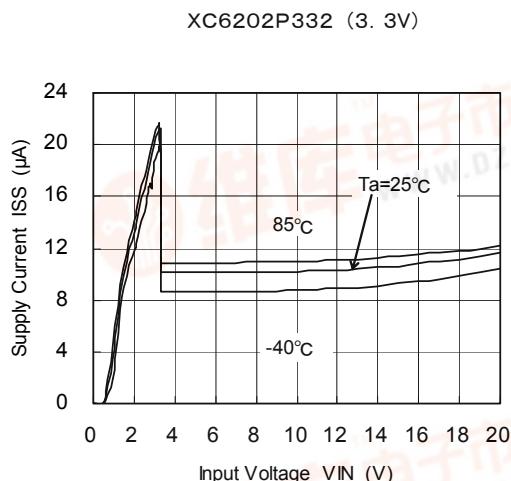


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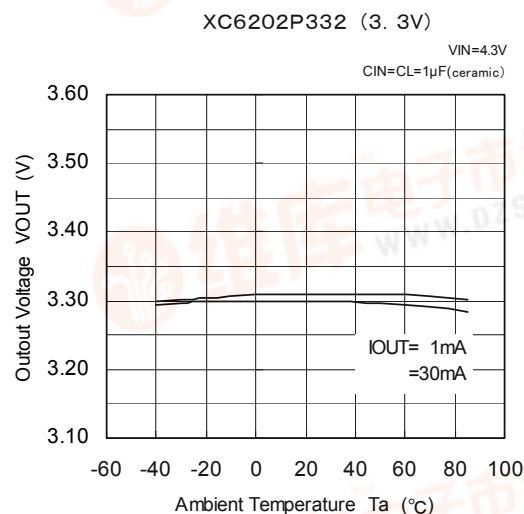
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P332 (Continued)

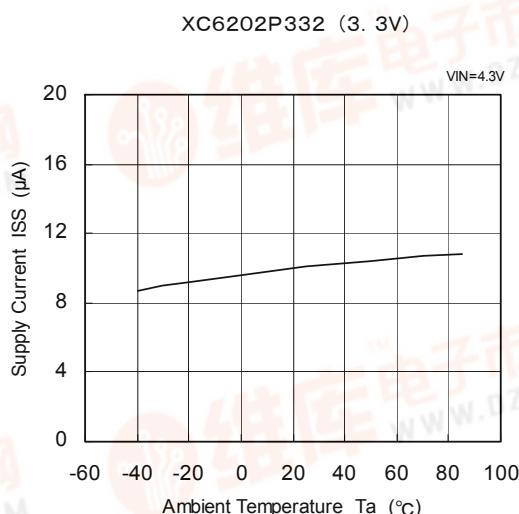
(4) Supply Current vs. Input Voltage



(5) Output Voltage vs. Ambient Temperature



(6) Supply Current vs. Ambient Temperature



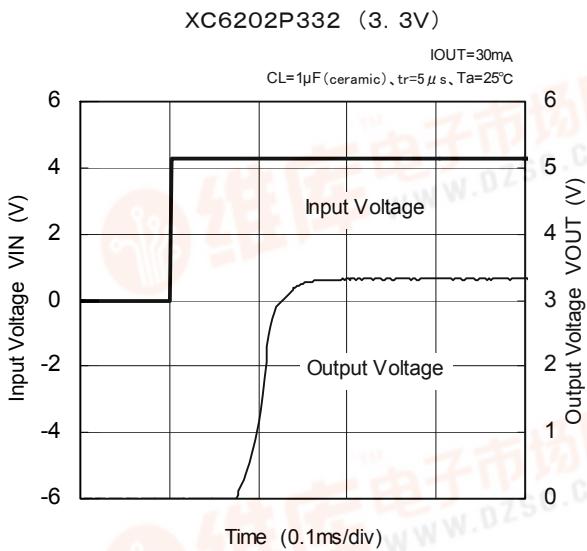
XC6202 Series

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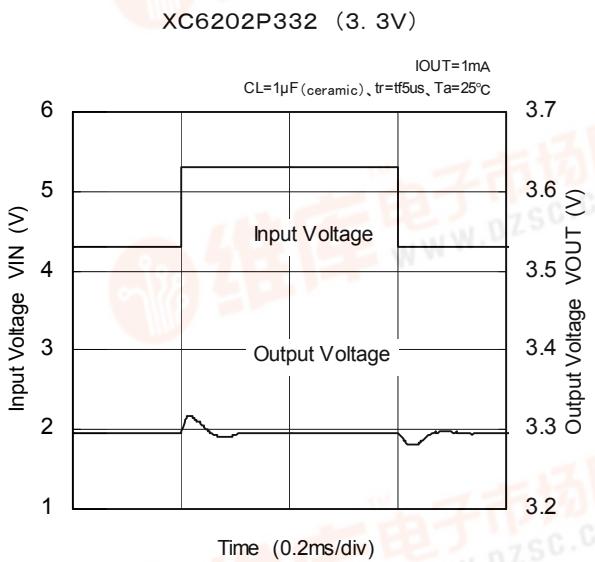
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P332 (Continued)

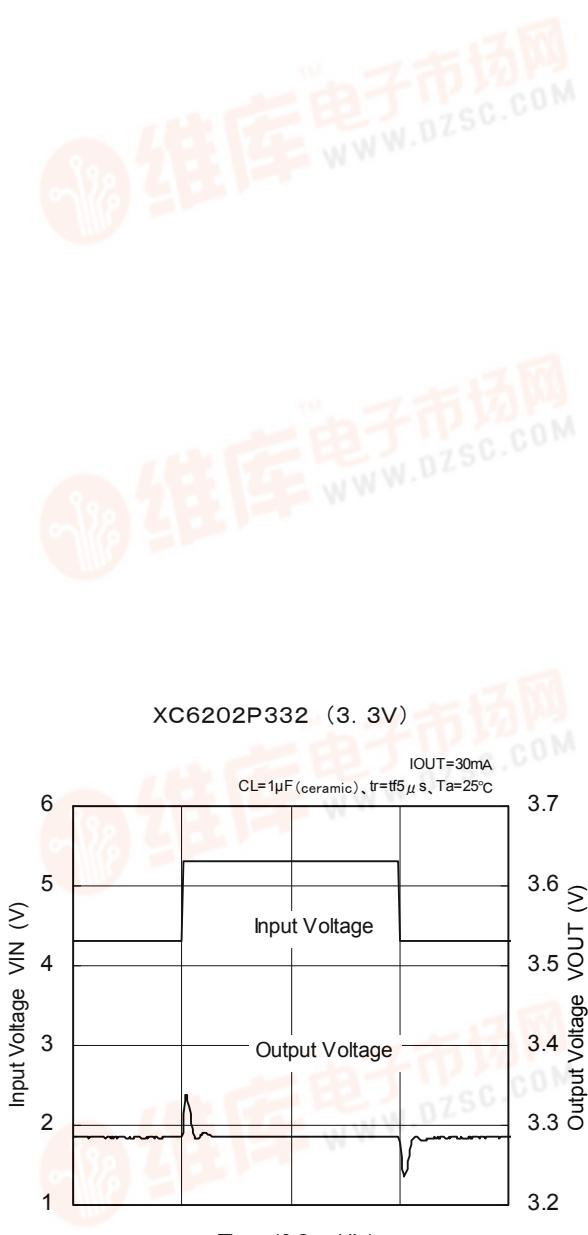
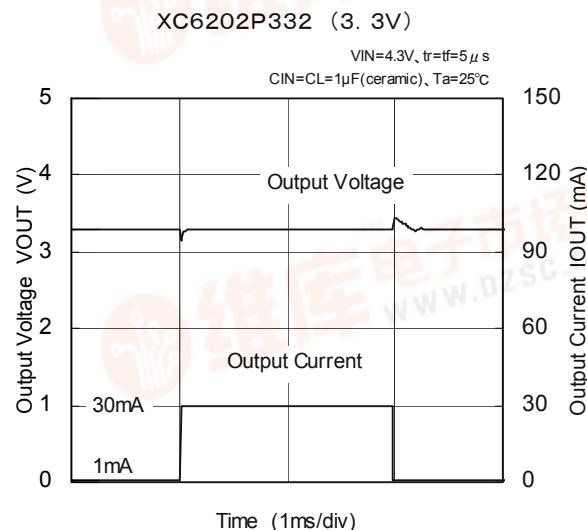
(7) Input Transient Response 1



(8) Input Transient Response 2



(9) Load Transient Response



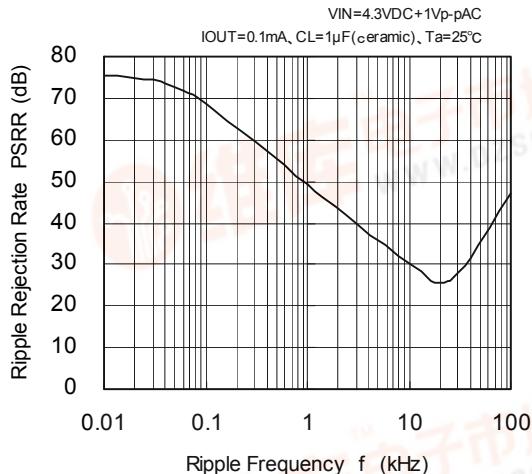
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TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

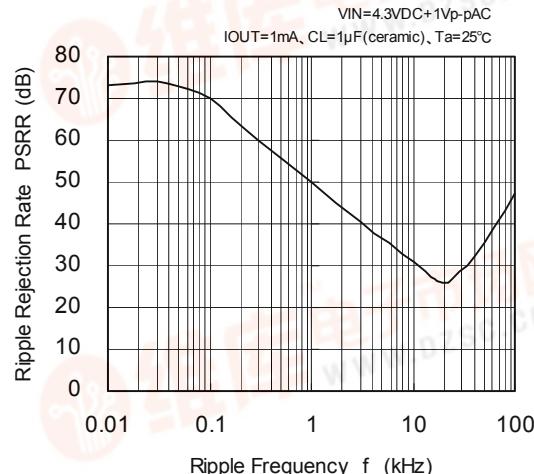
XC6202P332 (Continued)

(10) Ripple Rejection Rate

XC6202P332 (3.3V)

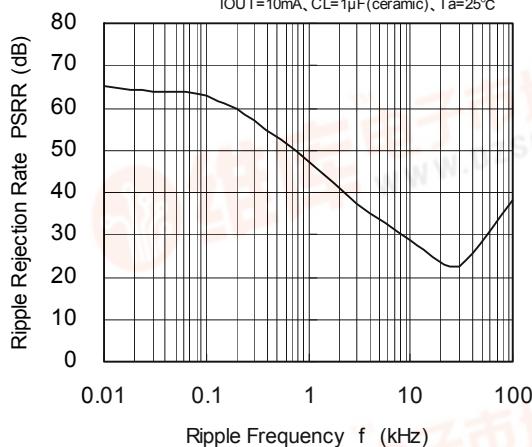


XC6202P332 (3.3V)



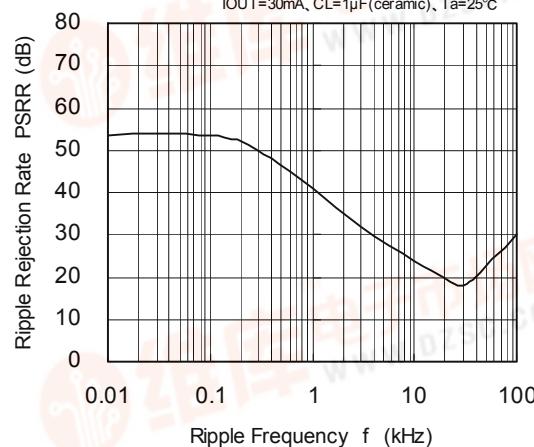
XC6202P332 (3.3V)

VIN=4.3VDC+1Vp-pAC
IOUT=10mA, CL=1μF(ceramic), Ta=25°C



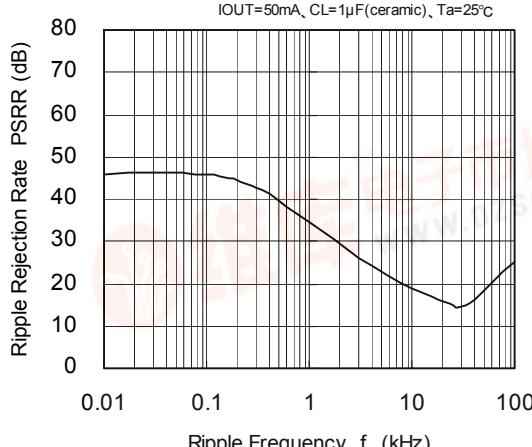
XC6202P332 (3.3V)

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



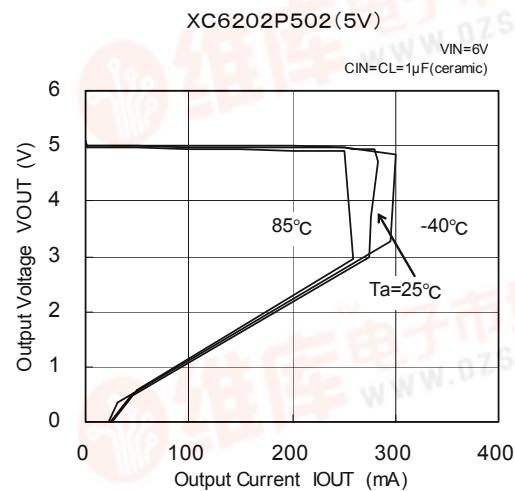
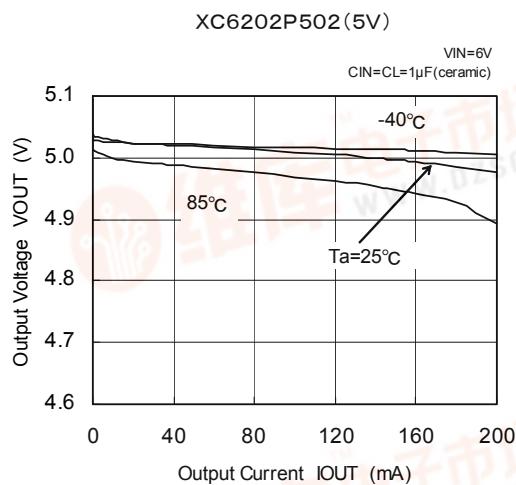
XC6202 Series

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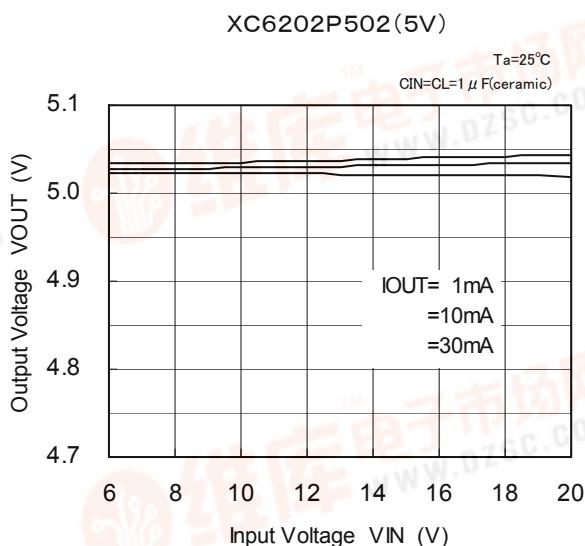
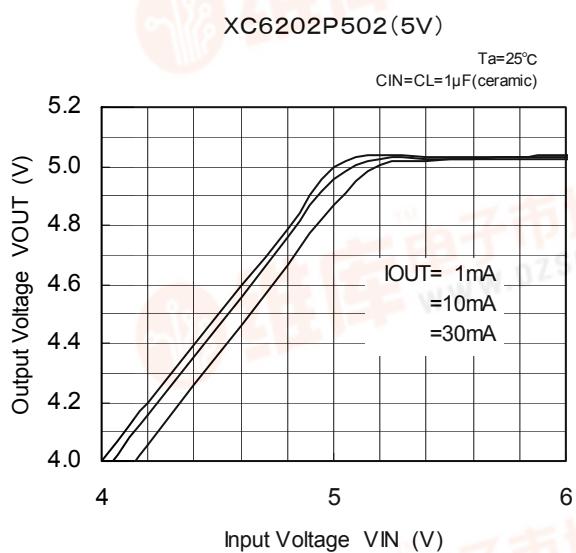
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P502

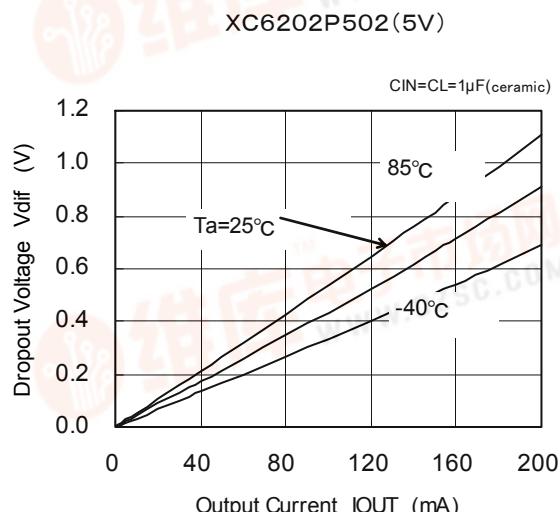
(1) Output Voltage vs. Output Current



(2) Output Voltage vs. Input Voltage



(3) Dropout Voltage vs. Output Current



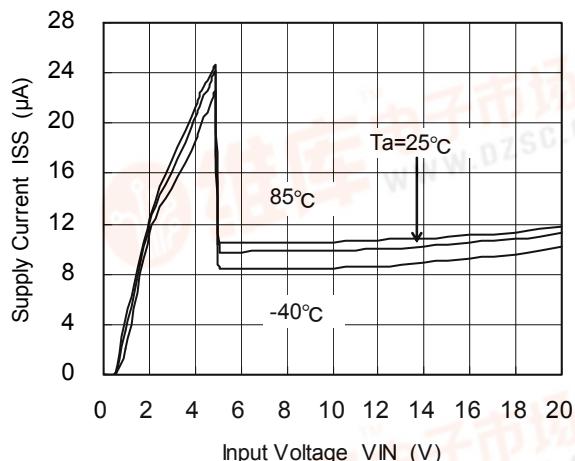
查询XC6202供应商

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

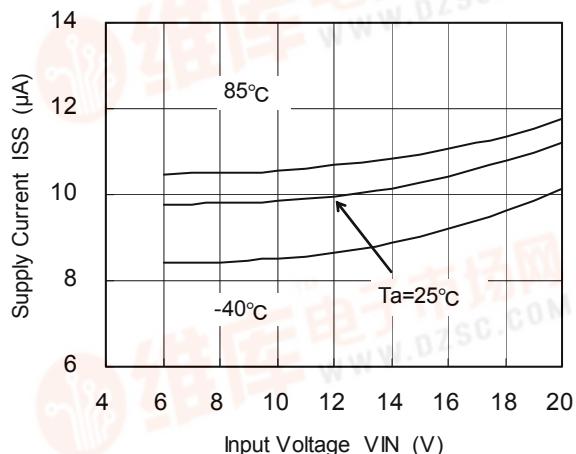
XC6202P502 (Continued)

(4) Supply Current vs. Input Voltage

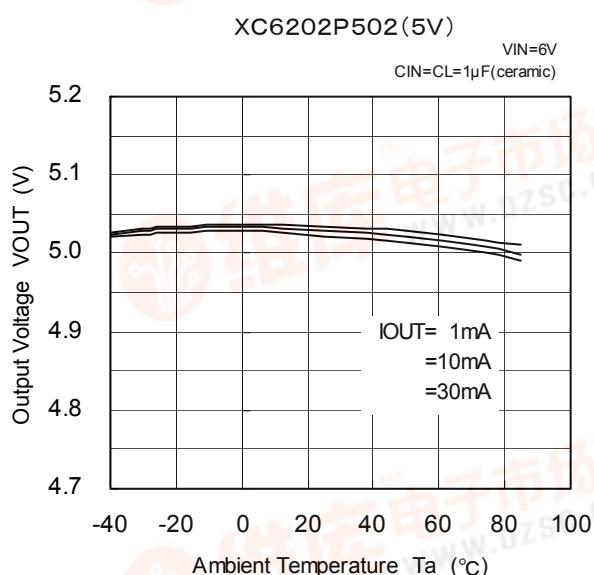
XC6202P502(5V)



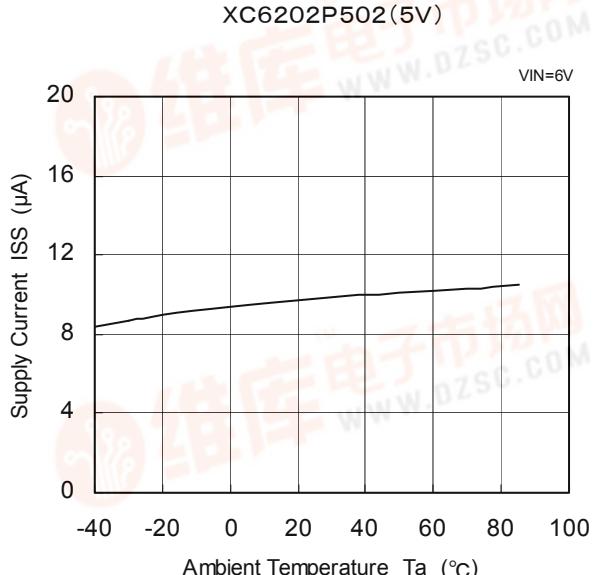
XC6202P502(5V)



(5) Output Voltage vs. Ambient Temperature



XC6202P502(5V)



(6) Supply Current vs. Ambient Temperature

XC6202 Series

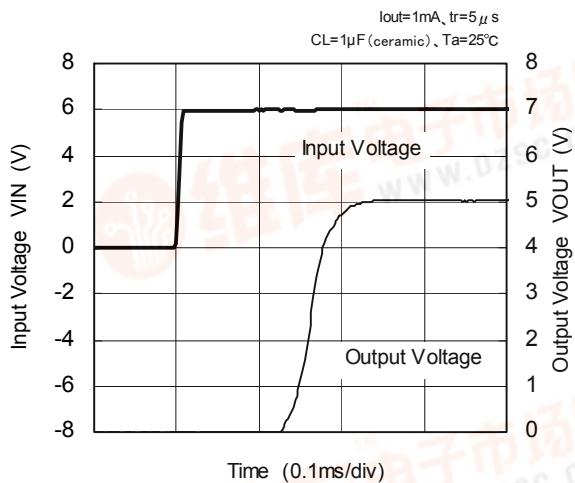
[查询XC6202供应商](#)

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

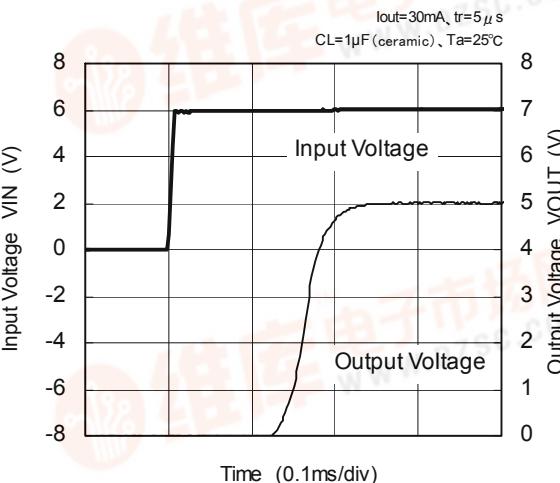
XC6202P502 (Continued)

(7) Input Transient Response 1

XC6202P502(5V)

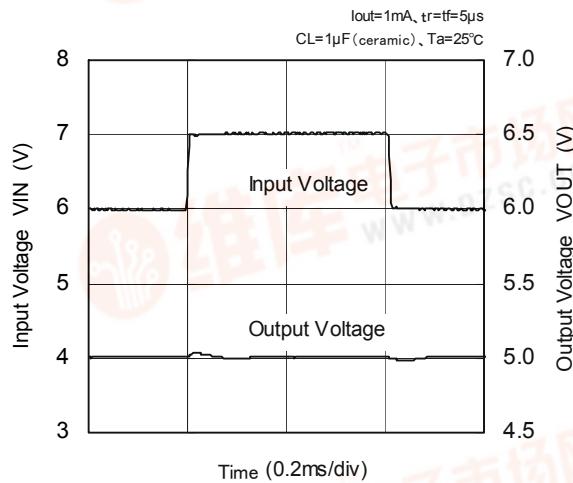


XC6202P502(5V)

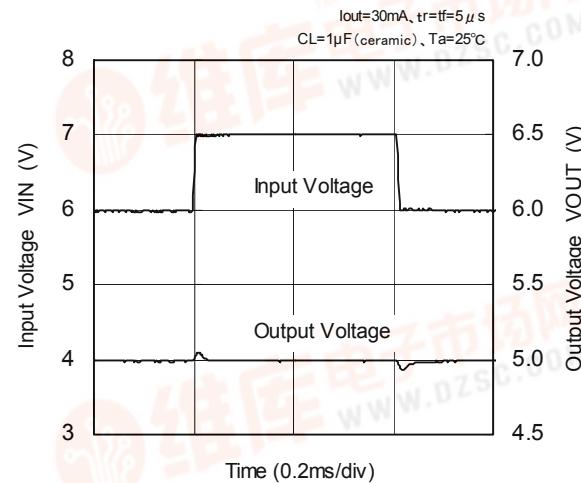


(8) Input Transient Response 2

XC6202P502(5V)

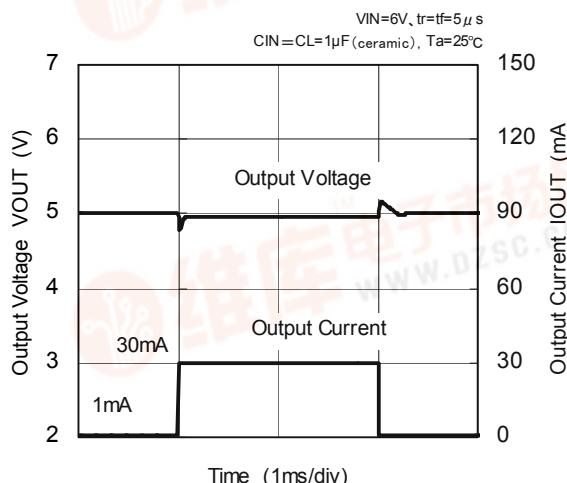


XC6202P502(5V)



(9) Load Transient Response

XC6202P502(5V)

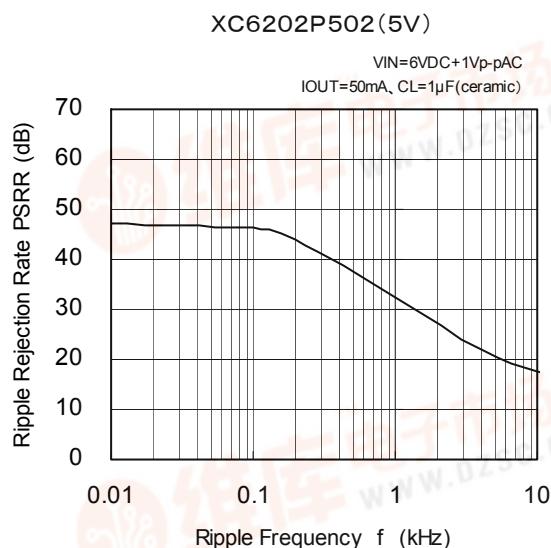
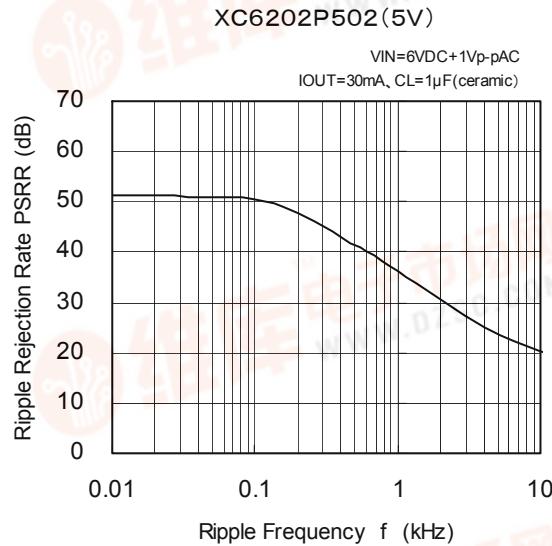
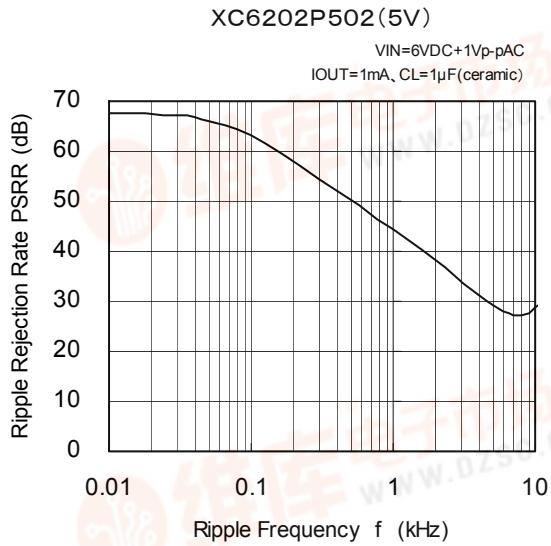


[查询XC6202供应商](#)

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202P502 (Continued)

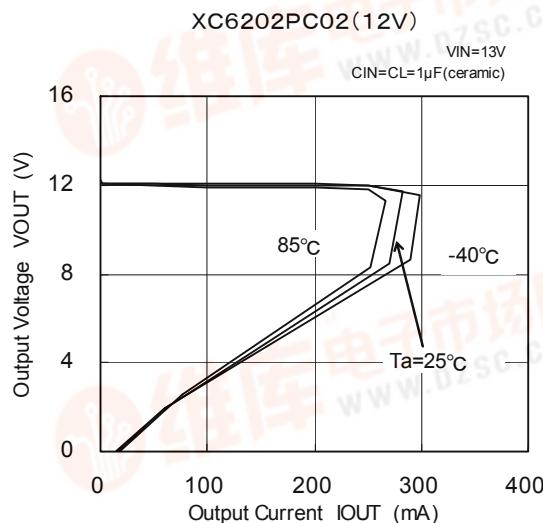
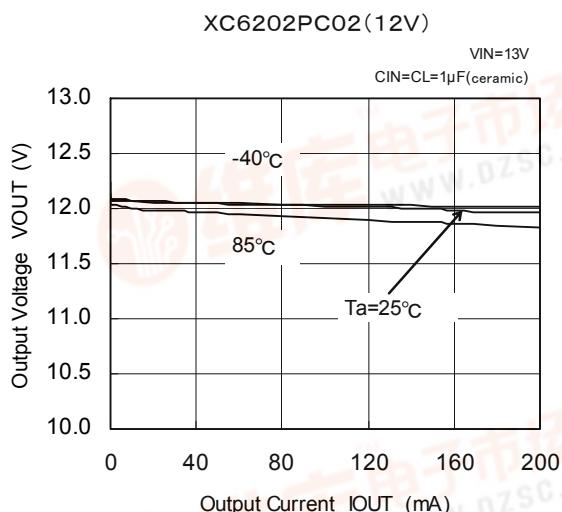
(10) Ripple Rejection Rate



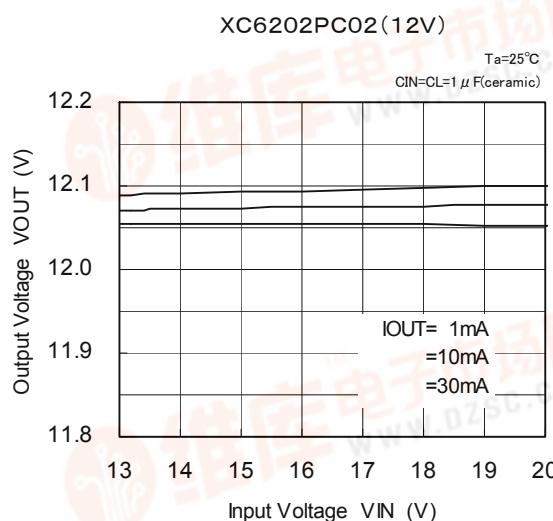
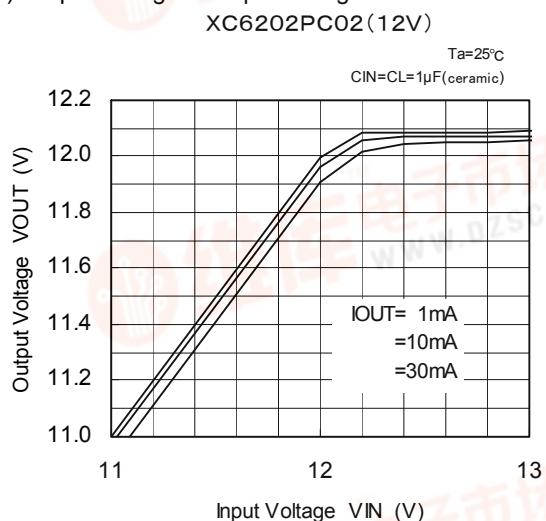
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PC02

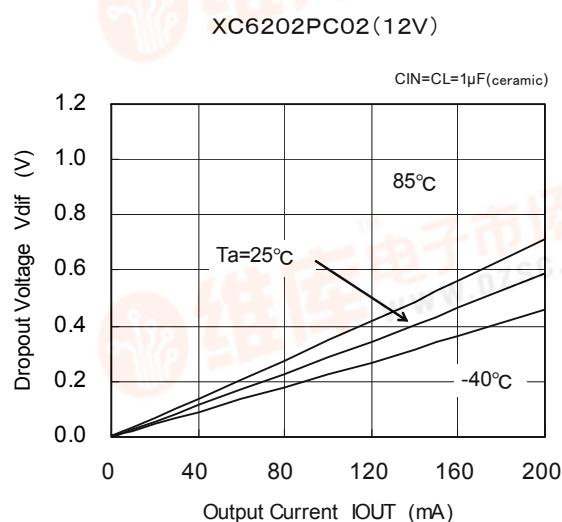
(1) Output Voltage vs. Output Current



(2) Output Voltage vs. Input Voltage



(3) Dropout Voltage vs. Output Current

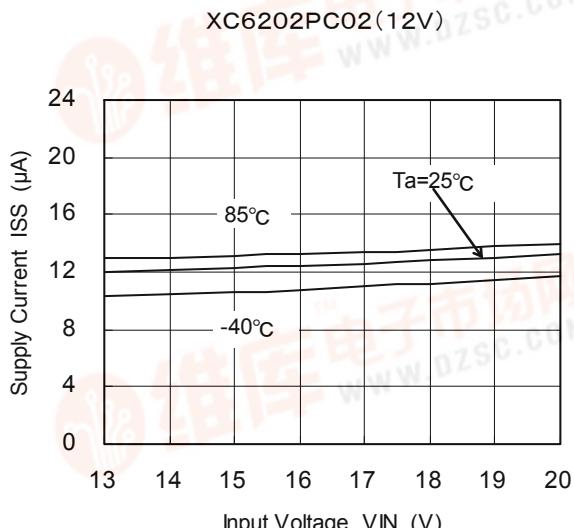
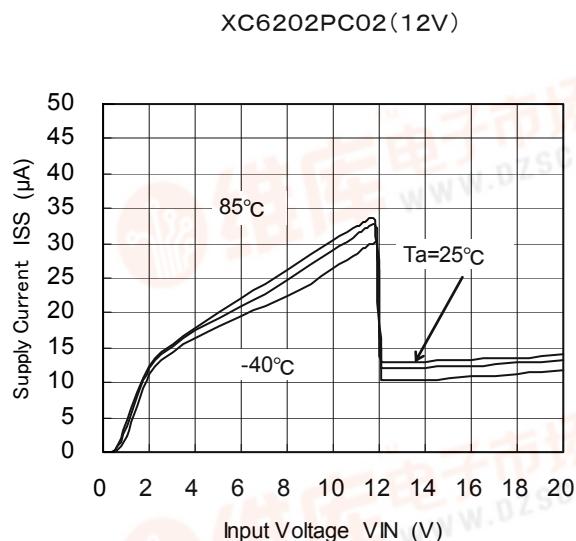


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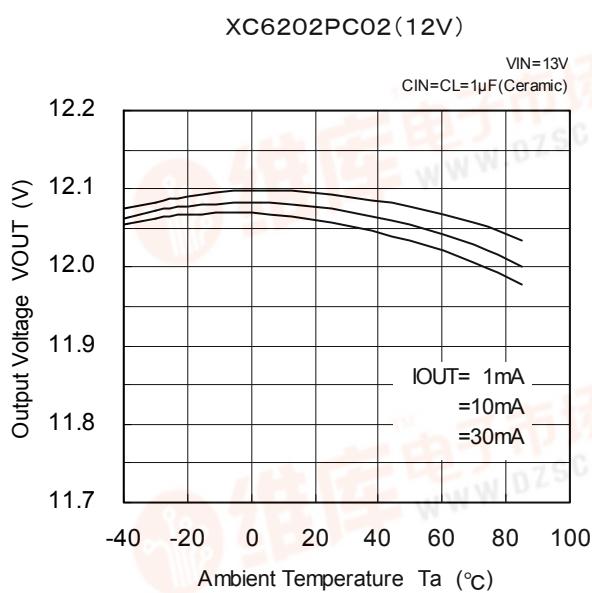
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PC02 (Continued)

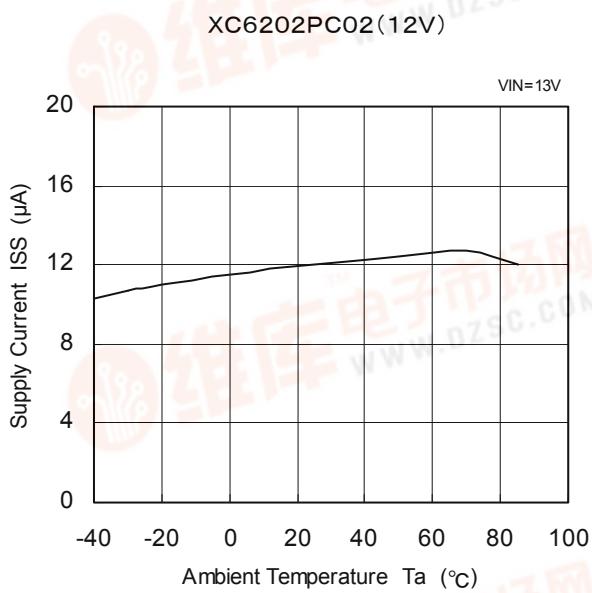
(4) Supply Current vs. Input Voltage



(5) Output Voltage vs. Ambient Temperature



(6) Supply Current vs. Ambient Temperature



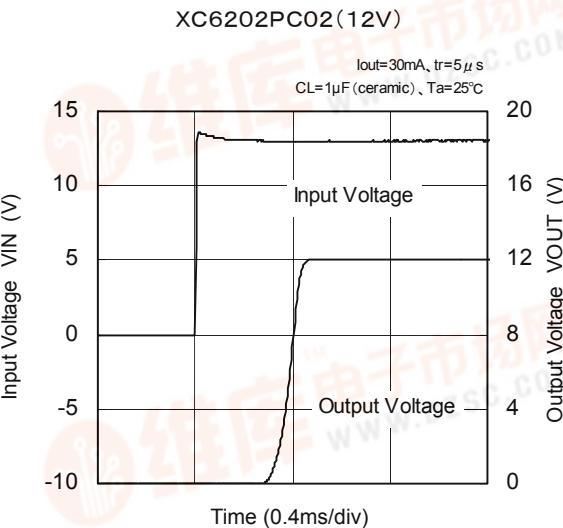
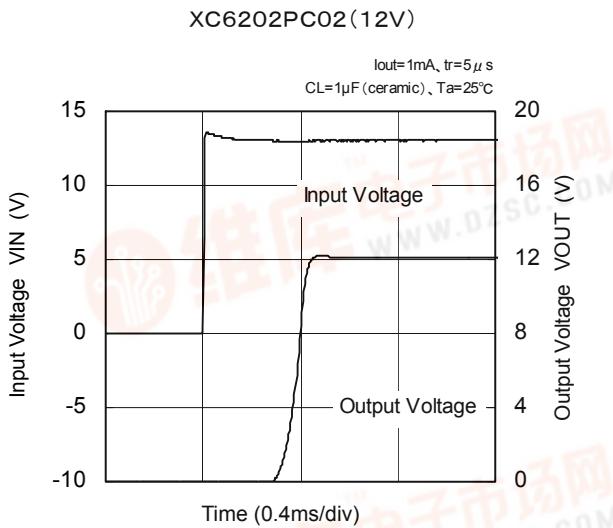
XC6202 Series

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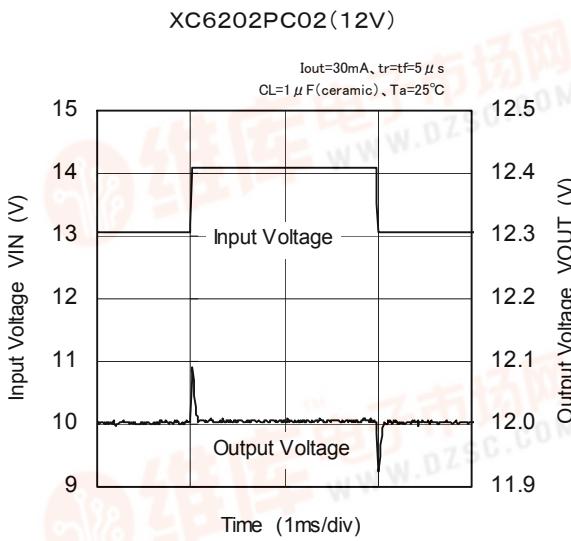
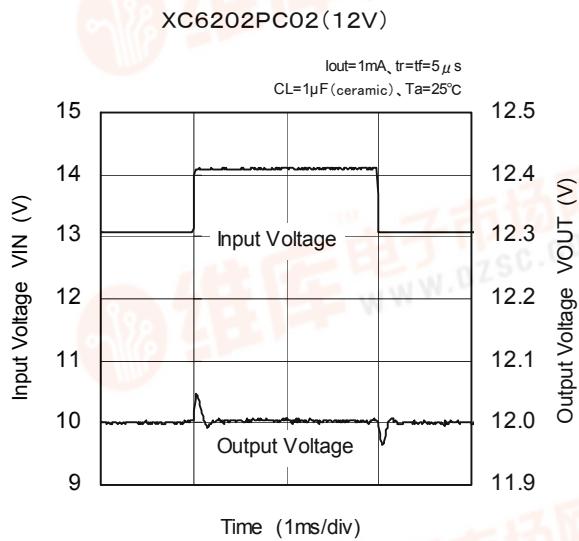
TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PC02 (Continued)

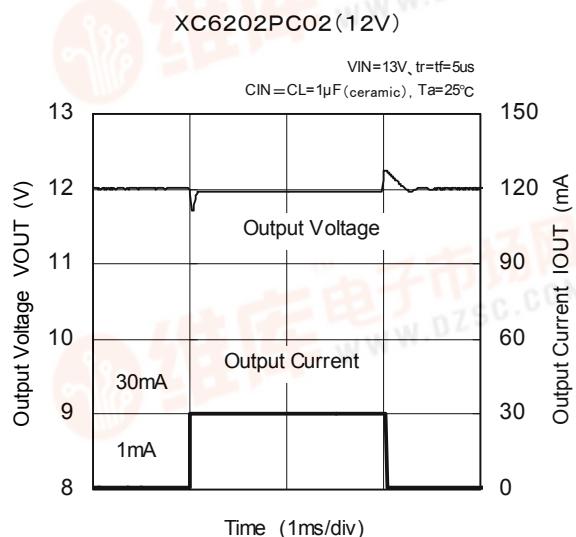
(7) Input Transient Response 1



(8) Input Transient Response 2



(9) Load Transient Response

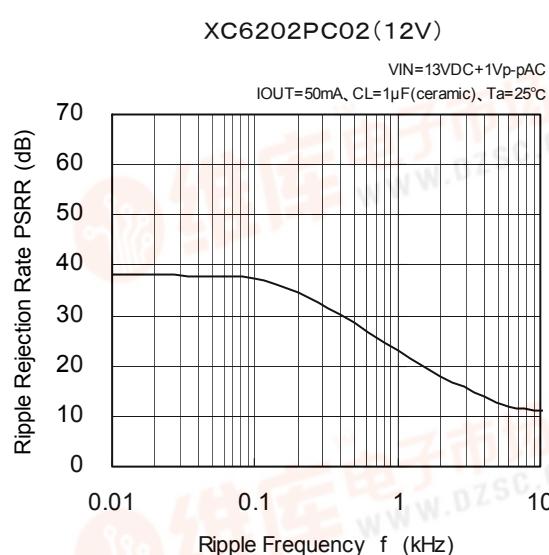
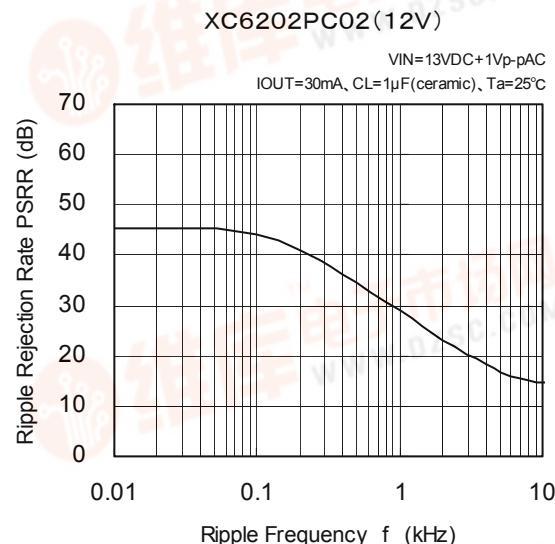
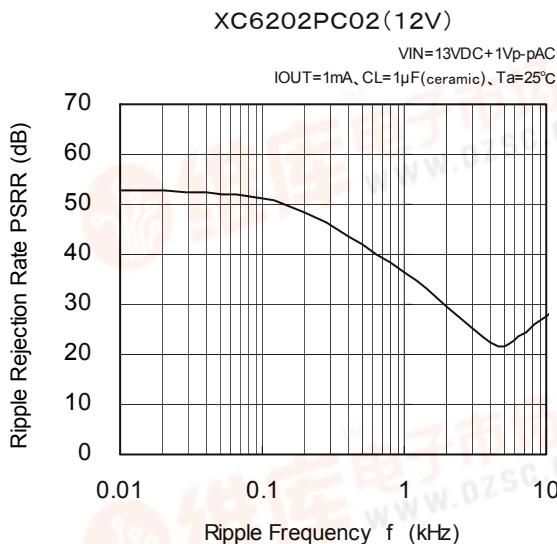


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TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PC02 (Continued)

(10) Ripple Rejection Rate



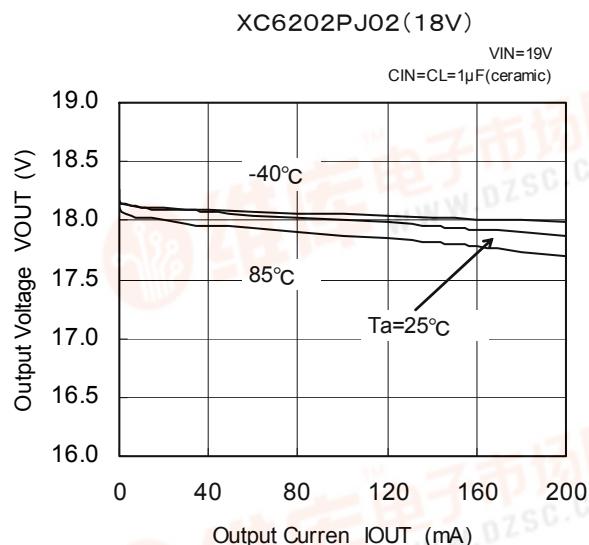
XC6202 Series

[查询XC6202供应商](#)

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

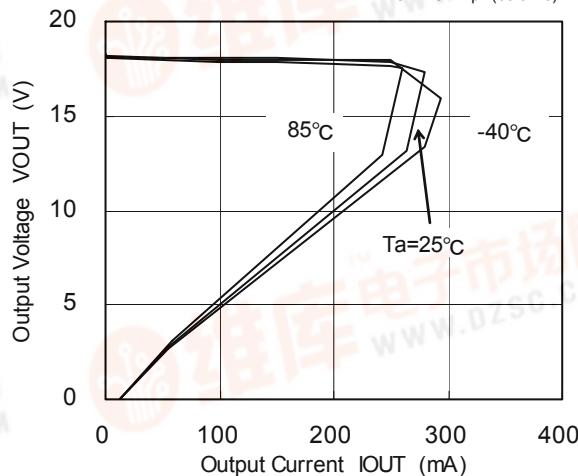
XC6202PJ02

(1) Output Voltage vs. Output Current

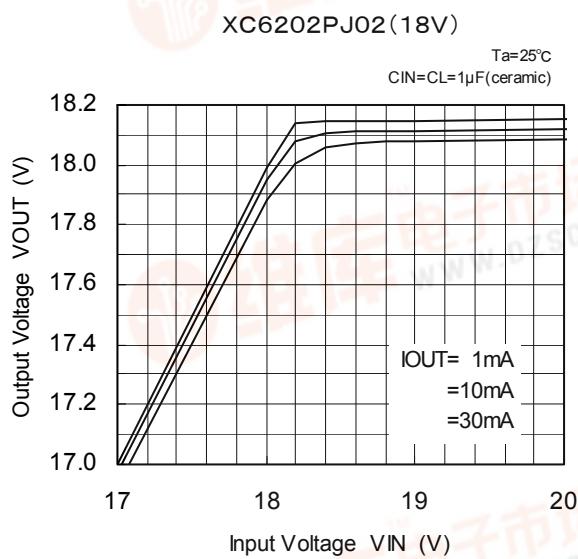


XC6202PJ02(18V)

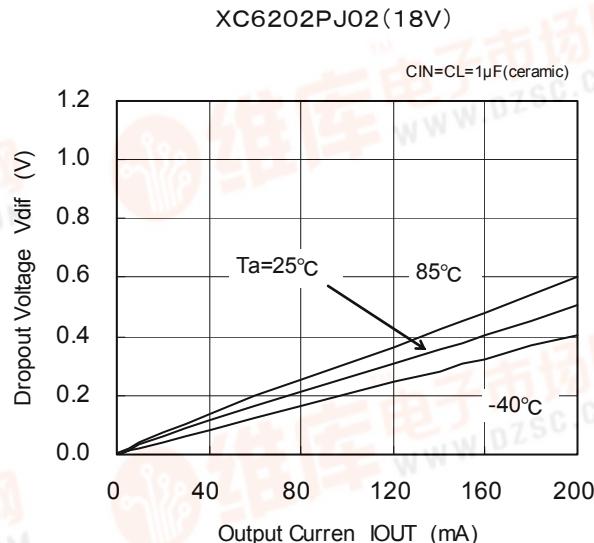
V_{IN}=19V
C_{IN}=C_{LOAD}=1μF(ceramic)



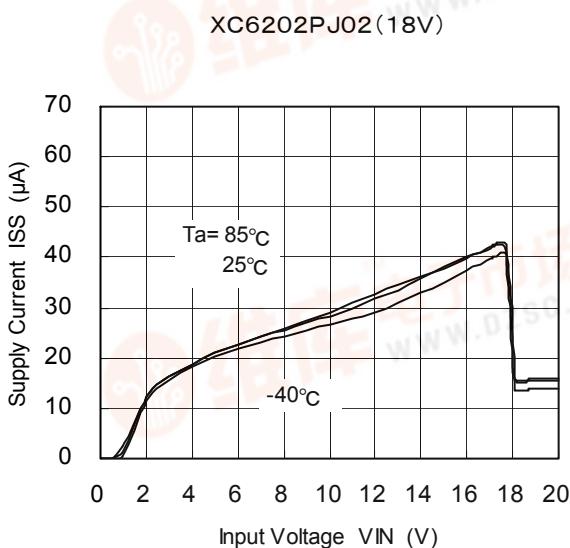
(2) Output Voltage vs. Input Voltage



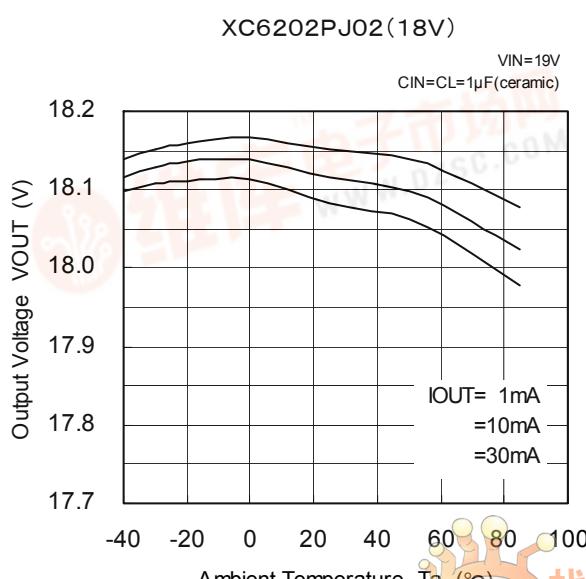
(3) Dropout Voltage vs. Output Current



(4) Supply Current vs. Input Voltage



(5) Output Voltage vs. Ambient Temperature



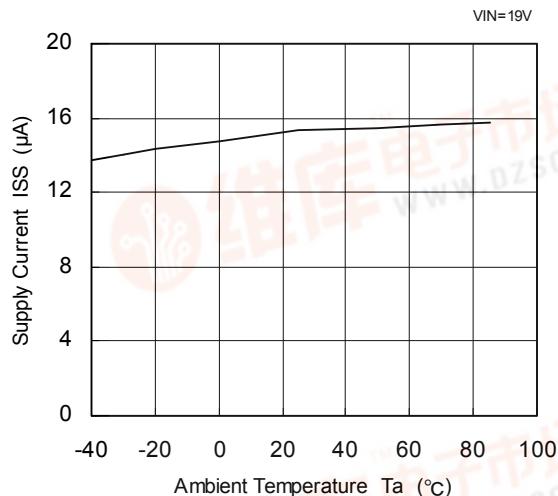
查询XC6202供应商

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PJ02 (Continued)

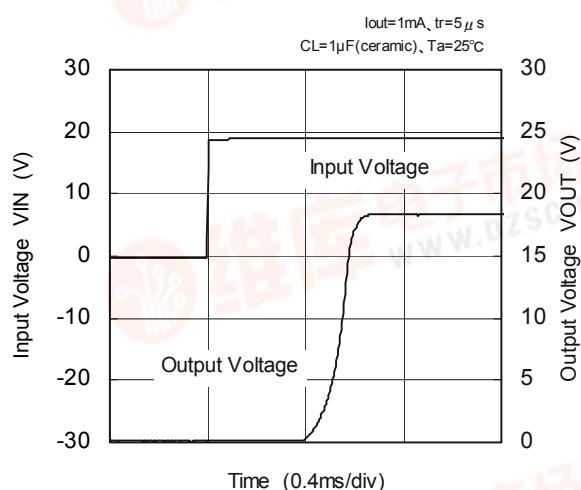
(6) Supply Current vs. Ambient Temperature

XC6202PJ02(18V)

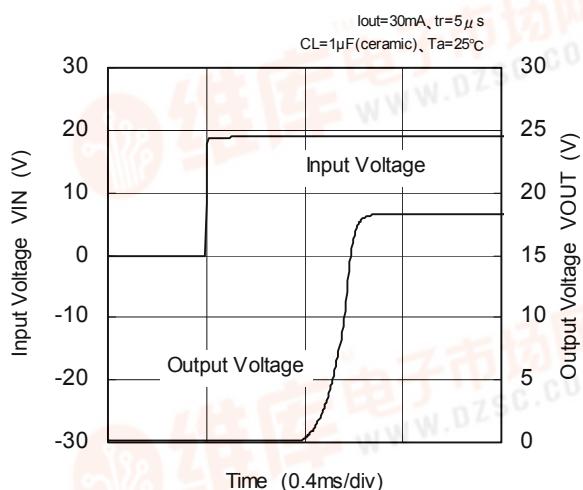


(7) Input Transient Response 1

XC6202PJ02(18V)

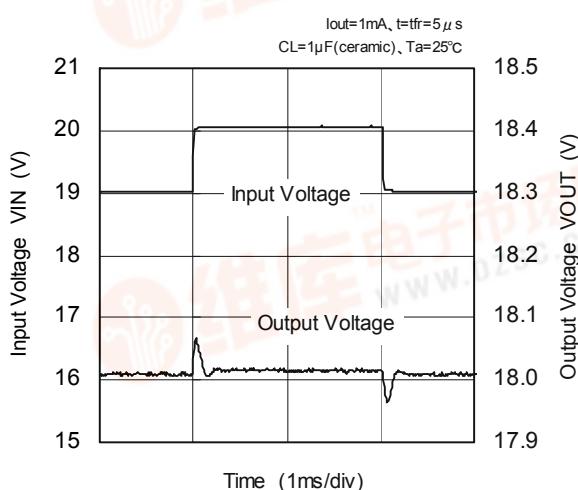


XC6202PJ02(18V)

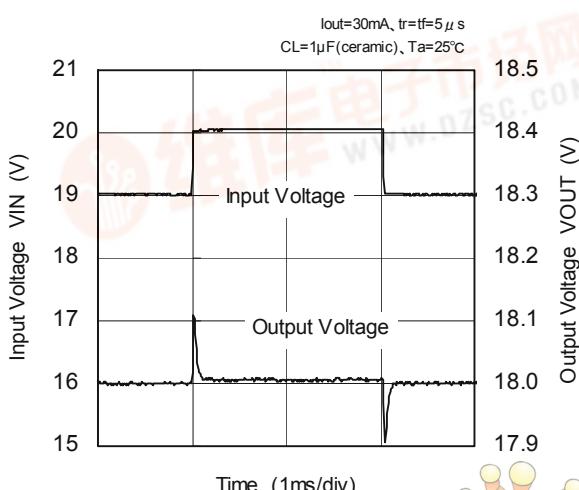


(8) Input Transient Response 2

XC6202PJ02(18V)



XC6202PJ02(18V)



XC6202 Series

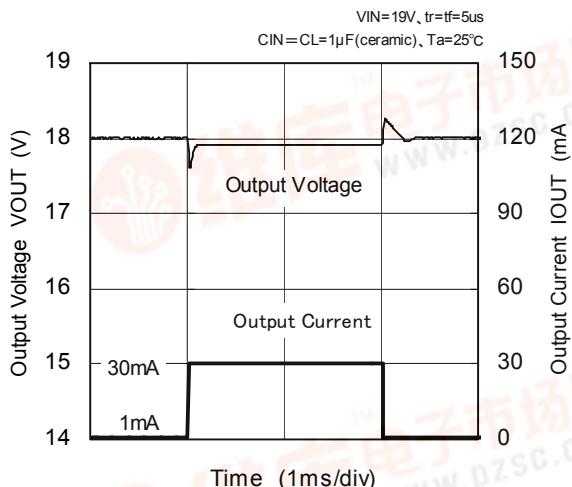
[查询XC6202供应商](#)

TYPICAL PERFORMANCE CHARACTERISTICS (Continued)

XC6202PJ02 (Continued)

(9) Load Transient Response

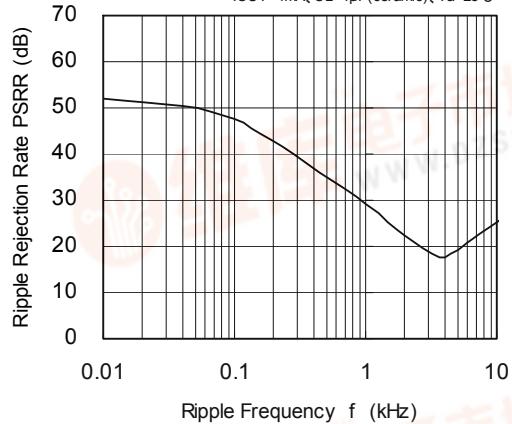
XC6202PJ02(18V)



(10) Ripple Rejection Rate

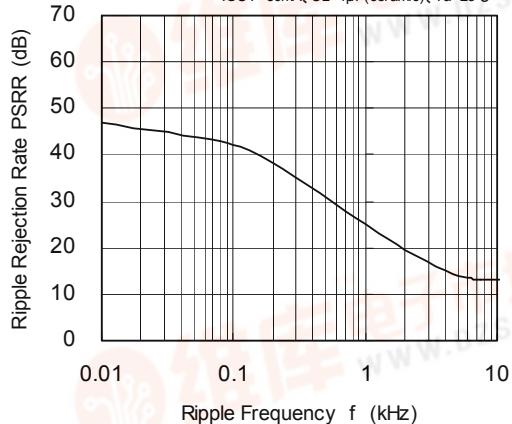
XC6202PJ02(18V)

$V_{IN}=19VDC+1Vp-pAC$
 $I_{OUT}=1mA$, $CL=1\mu F$ (ceramic), $T_a=25^{\circ}C$



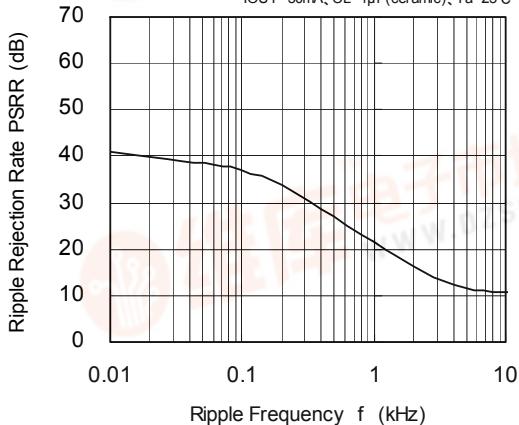
XC6202PJ02(18V)

$V_{IN}=19VDC+1Vp-pAC$
 $I_{OUT}=30mA$, $CL=1\mu F$ (ceramic), $T_a=25^{\circ}C$



XC6202PJ02(18V)

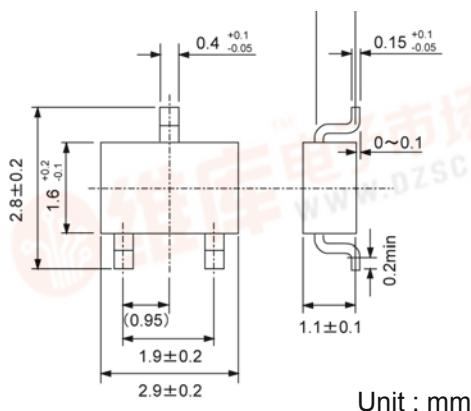
$V_{IN}=19VDC+1Vp-pAC$
 $I_{OUT}=50mA$, $CL=1\mu F$ (ceramic), $T_a=25^{\circ}C$



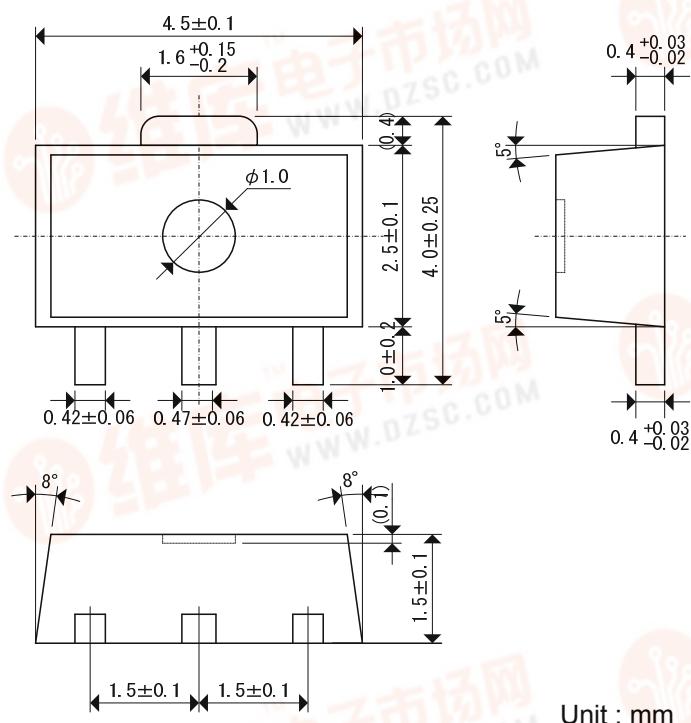
[查询XC6202供应商](#)

PACKAGING INFORMATION

SOT-23



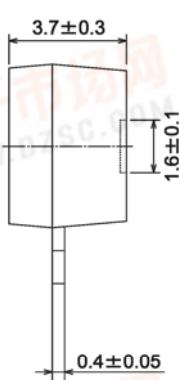
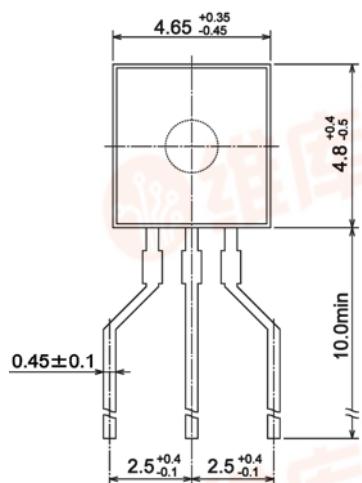
SOT-89



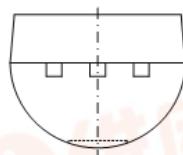
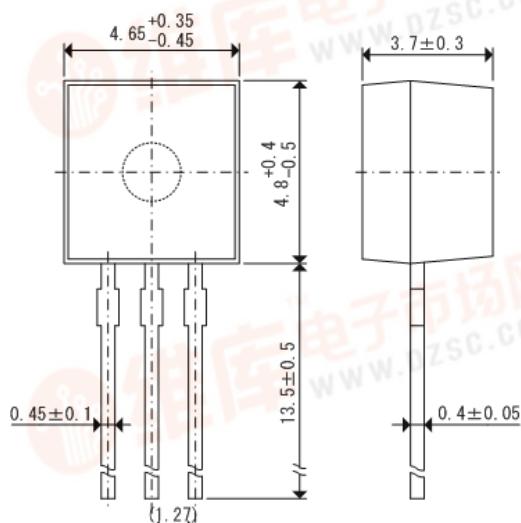
PACKAGING INFORMATION (Continued)

TO-92

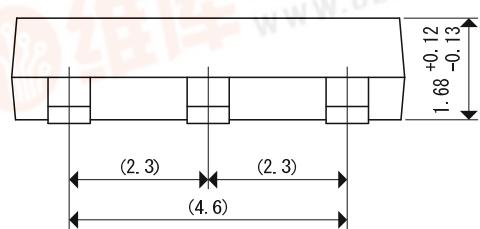
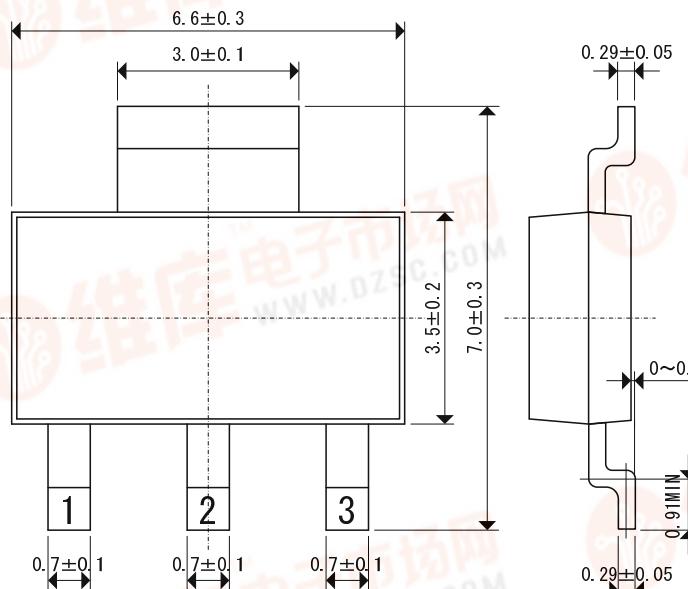
Paper type



Bag



SOT-223

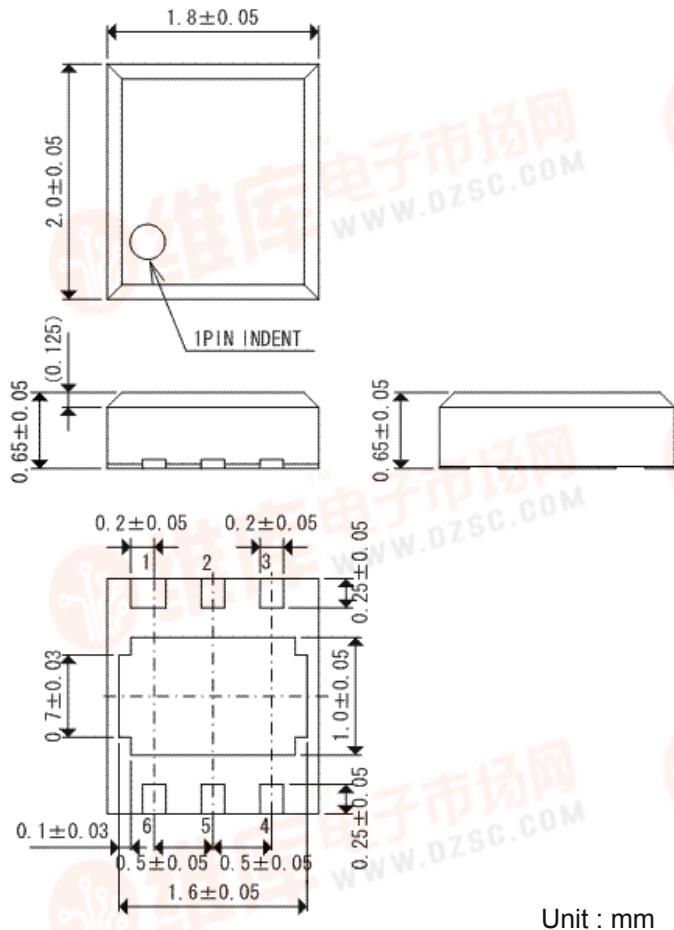


Unit : mm

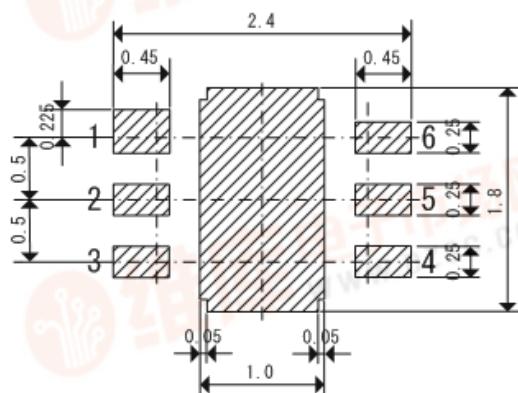
[查询XC6202供应商](#)

PACKAGING INFORMATION (Continued)

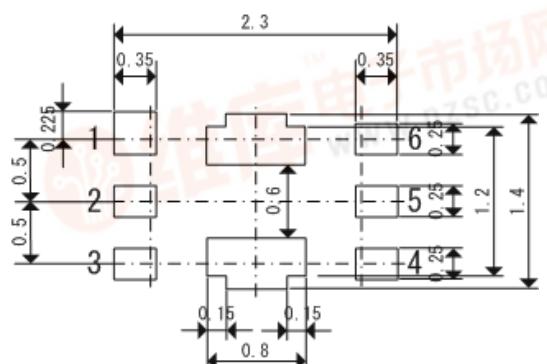
USP-6B



USP-6B Recommended Pattern Layout



USP-6B Recommended Metal Mask Design

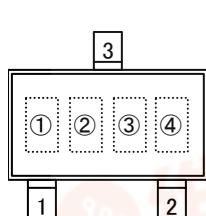


XC6202 Series

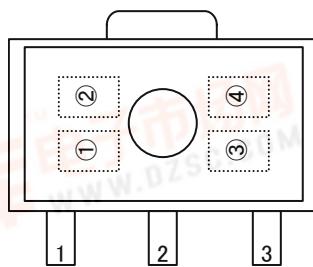
[查询XC6202供应商](#)

MARKING RULE

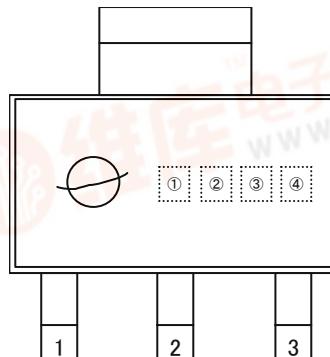
SOT-23, SOT-89, SOT-223



SOT-23
(TOP VIEW)



SOT-89
(TOP VIEW)



SOT-223
(TOP VIEW)

represents product series

MARK	PRODUCT SERIES
2	XC6202Pxxxxx

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	

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

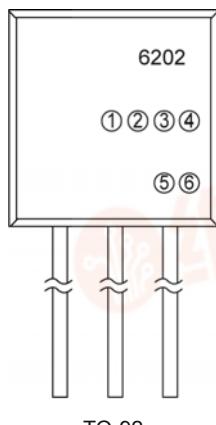
represents production lot number

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

[查询XC6202供应商](#)

MARKING RULE(Continued)

TO-92



TO-92

(SIDE VIEW)

represents type of regulator

MARK	PRODUCT SERIES
P	XC6202Pxxxxx

represents integer of the output voltage

MARK	VOLTAGE (V)	PRODUCT SERIES	MARK	VOLTAGE (V)	PRODUCT SERIES
1	1.x	XC6202P1xxxx	A	10.x	XC6202PAxxxx
2	2.x	XC6202P2xxxx	B	11.x	XC6202PBxxxx
3	3.x	XC6202P3xxxx	C	12.x	XC6202PCxxxx
4	4.x	XC6202P4xxxx	D	13.x	XC6202PDxxxx
5	5.x	XC6202P5xxxx	E	14.x	XC6202PExxxx
6	6.x	XC6202P6xxxx	F	15.x	XC6202PFxxxx
7	7.x	XC6202P7xxxx	G	16.x	XC6202PGxxxx
8	8.x	XC6202P8xxxx	H	17.x	XC6202PHxxxx
9	9.x	XC6202P9xxxx	J	18.x	XC6202PJxxxx

represents decimal number of output voltage

MARK	VOLTAGE (V)	PRODUCT SERIES
3	x.3	XC6202Px3xxx
0	x.0	XC6202Px0xxx

represents detect voltage accuracy

MARK	DETECT VOLTAGE ACCURACY	PRODUCT SERIES
2	Within $\pm 2\%$	XC6202Pxx2xx
1	Within $\pm 1\%$	XC6202Pxx1xx

represents a least significant digit of production year

MARK	PRODUCTION YEAR
3	2003
4	2004

represents production lot number

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

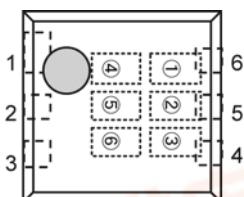
Note: No character inversion used.

XC6202 Series

[查询XC6202供应商](#)

MARKING RULE (Continued)

USP-6B



USP-6B
(TOP VIEW)

represents product series

MARK		PRODUCT SERIES
0	2	XC6202PxxxDx

represents type of regulator

MARK	PRODUCT SERIES
P	XC6202Pxxxx

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

represents decimal number of output voltage

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

represents production lot number

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

Note: No character inversion used.

[查询XC6202供应商](#)

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