

### Preliminary

- ◆ **CMOS Low Power Consumption**
- ◆ **Small Input-Output Voltage Differential:**  
**0.18V at 60mA, 0.58V at 160mA**
- ◆ **Maximum Output Current: 165mA (V<sub>OUT</sub>=3.0V)**
- ◆ **Highly Accurate:  $\pm 2\%$ ( $\pm 1\%$ )**
- ◆ **Output Voltage Range: 2.0V~6.0V**
- ◆ **Standby Supply Current 0.1 $\mu$ A(V<sub>OUT</sub>=3.0V)**
- ◆ **SOT-25/SOT-89-5 Package**

### General Description

The XC62H series are highly precise, low power consumption, positive voltage regulators, manufactured using CMOS and laser trimming technologies. The series consists of a high precision voltage reference, an error correction circuit, and an output driver with current limitation.

By way of the CE function, with output turned off, the series enters stand-by. In the stand-by mode, power consumption is greatly reduced.

SOT-25 (150mW) and SOT-89-5 (500mW) packages are available.

In relation to the CE function, as well as the positive logic XC62HR series, a negative logic XC62HP series (custom) is also available.

### Output On/Off Control

#### Applications

- Battery Powered Instruments
- Voltage supplies for cellular phones
- Cameras and Video Recorders
- Palmtops

#### Features

**Maximum Output Current:** 165mA (within Maximum power dissipation, V<sub>OUT</sub>=3.0V)

**Output Voltage Range:** 2.0V ~ 6.0V in 0.1V increments  
(1.1V to 1.9V semi-custom)

**Highly Accurate:** Set-up Voltage  $\pm 2\%$  ( $\pm 1\%$  for semi-custom products)

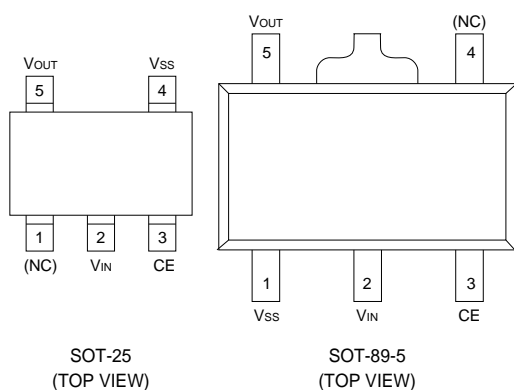
**Low power consumption:** TYP 3.0 $\mu$ A (V<sub>OUT</sub>=3.0, Output enabled)  
TYP 0.1 $\mu$ A (Output disabled)

**Output voltage temperature characteristics:** TYP  $\pm 100$ ppm/ $^{\circ}$ C

**Input stability:** TYP 0.2%/V

**Ultra small package:** SOT-25 (150mW) mini-mold  
SOT-89-5 (500mW) mini-power mold

### Pin Configuration



### Pin Assignment

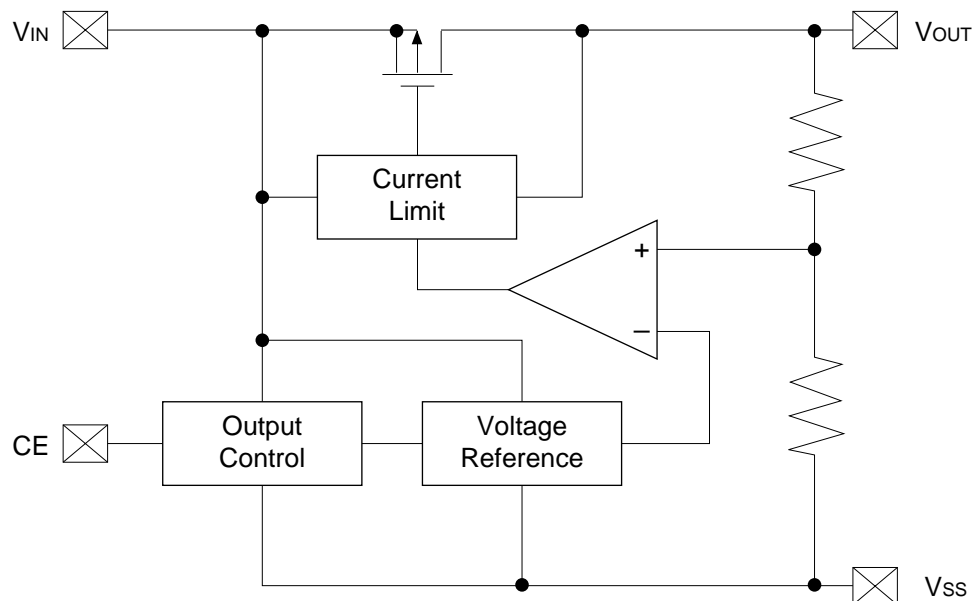
PIN NUMBER		PIN NAME	FUNCTION
SOT-25	SOT-89-5		
1	4	(NC)	No Connection
2	2	V <sub>IN</sub>	Supply Voltage Input
3	3	CE	Chip Enable
4	1	V <sub>SS</sub>	Ground
5	5	V <sub>OUT</sub>	Regulated Output Voltage

### Function

SERIES	CE	VOLTAGE OUTPUT
XC62HR	H	ON
	L	OFF
XC62HP	H	OFF
	L	ON

H=High, L=Low

### ■ Block Diagram



### ■ Absolute Maximum Ratings

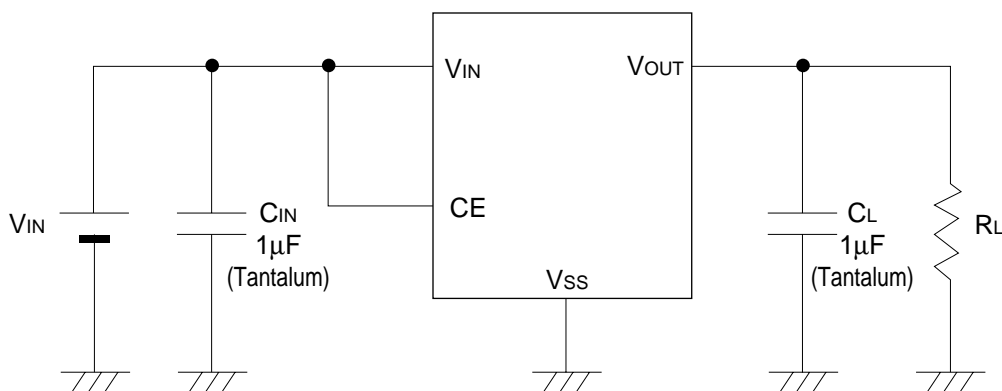
Absolute Maximum Ratings

Ta=25°C

PARAMETER		SYMBOL	RATINGS	UNITS
Input Voltage		V <sub>IN</sub>	12	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
CE Input Voltage		V <sub>CE</sub>	V <sub>SS</sub> -0.3 ~ V <sub>IN</sub> +0.3	V
Continuous Total Power Dissipation	SOT-25	P <sub>d</sub>	150	mW
	SOT-89-5	P <sub>d</sub>	500	
Operating Ambient Temperature		T <sub>opr</sub>	-30 ~ +80	°C
Storage Temperature		T <sub>stg</sub>	-40 ~ +25	°C

Note:  $I_{OUT}$  must be less than  $P_d / (V_{IN} - V_{OUT})$ .

### ■ Standard Circuit



## ■ Electrical Characteristics

XC62HR2002  $V_{OUT}(T)=2.0V$ (Note1)

$T_a=25^{\circ}C$

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	$V_{OUT}(E)$ (Note2)	$I_{OUT}=40mA$ $V_{IN}=3.0V$	1.960	2.000	2.040	V	1
Maximum Output Current	$I_{OUT\ max}$	$V_{IN}=3.0V, V_{OUT}(E) \geq 1.8V$	115			mA	1
Load Stability	$\Delta V_{OUT}$	$V_{IN}=3.0V$ $1mA \leq I_{OUT} \leq 60mA$		45	90	mV	1
Input -Output Voltage Differential (Note3)	$V_{dif1}$	$I_{OUT}=40mA$		180	360	mV	1
	$V_{dif2}$	$I_{OUT}=100mA$		580	880	mV	1
Supply Current1	ISS1	$V_{IN}=V_{CE}=3.0V$		2.9	7.9	$\mu A$	2
Supply Current2	ISS2	$V_{IN}=3.0V, V_{CE}=V_{SS}$			0.1	$\mu A$	2
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $3.0V \leq V_{IN} \leq 10.0V$		0.2	0.3	%/V	1
Input Voltage	$V_{IN}$				10.0	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $-30^{\circ}C \leq T_{opr} \leq 80^{\circ}C$		$\pm 100$		ppm/ $^{\circ}C$	1
CE "High" Voltage	$V_{CEH}$		1.5			V	1
CE "Low" Voltage	$V_{CEL}$				0.25	V	1
CE "High" Current	$I_{CEH}$	$V_{CE}=V_{IN}$			5.0	$\mu A$	2
CE "Low" Current	$I_{CEL}$	$V_{CE}=V_{SS}$	-0.2	-0.05	0	$\mu A$	2

- Note: 1.  $V_{OUT}(T)$ =Specified Output Voltage .  
 2.  $V_{OUT}(E)$ =Effective Output Voltage (i.e. the output voltage when " $V_{OUT}(T)+1.0V$ " is provided at the  $V_{IN}$  pin while maintaining a certain  $I_{OUT}$  value).  
 3.  $V_{dif} = \{V_{IN1} \text{ (Note5)} - V_{OUT1} \text{ (Note4)}\}$   
 4.  $V_{OUT1}$ = A voltage equal to 98% of the Output Voltage whenever an amply stabilised  $I_{OUT}$  ( $V_{OUT}(T)+1.0V$ ) is input.  
 5.  $V_{IN1}$ = The Input Voltage when  $V_{OUT1}$  appears as Input Voltage is gradually decreased.

### Electrical Characteristics

XC62HR3002  $V_{OUT}(T)=3.0V$ (Note1)

$T_a=25^{\circ}C$

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	$V_{OUT}(E)$ (Note2)	$I_{OUT}=40mA$ $V_{IN}=4.0V$	2.940	3.000	3.060	V	1
Maximum Output Current	$I_{OUT\ max}$	$V_{IN}=4.0V$ , $V_{OUT}(E) \geq 2.7V$	165			mA	1
Load Stability	$\Delta V_{OUT}$	$V_{IN}=4.0V$ $1mA \leq I_{OUT} \leq 80mA$		45	90	mV	1
Input -Output Voltage Differential (Note3)	$V_{dif1}$	$I_{OUT}=60mA$		180	360	mV	1
	$V_{dif2}$	$I_{OUT}=160mA$		580	880	mV	1
Supply Current1	ISS1	$V_{IN}=V_{CE}=4.0V$		3.0	8.0	$\mu A$	2
Supply Current2	ISS2	$V_{IN}=4.0V$ , $V_{CE}=V_{SS}$			0.1	$\mu A$	2
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $4.0V \leq V_{IN} \leq 10.0V$		0.2	0.3	%/V	1
Input Voltage	$V_{IN}$				10.0	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $-30^{\circ}C \leq T_{opr} \leq 80^{\circ}C$		$\pm 100$		ppm/ $^{\circ}C$	1
CE "High" Voltage	$V_{CEH}$		1.5			V	1
CE "Low" Voltage	$V_{CEL}$				0.25	V	1
CE "High" Current	$I_{CEH}$	$V_{CE}=V_{IN}$			5.0	$\mu A$	2
CE "Low" Current	$I_{CEL}$	$V_{CE}=V_{SS}$	-0.2	-0.05	0	$\mu A$	2

- Note:
1.  $V_{OUT}(T)$ =Specified Output Voltage .
  2.  $V_{OUT}(E)$ =Effective Output Voltage (i.e. the output voltage when " $V_{OUT}(T)+1.0V$ " is provided at the  $V_{IN}$  pin while maintaining a certain  $I_{OUT}$  value).
  3.  $V_{dif} = \{V_{IN1} \text{ (Note5)} - V_{OUT1} \text{ (Note4)}\}$
  4.  $V_{OUT1}$ = A voltage equal to 98% of the Output Voltage whenever an amply stabilised  $I_{OUT}$  ( $V_{OUT}(T)+1.0V$ ) is input.
  5.  $V_{IN1}$ = The Input Voltage when  $V_{OUT1}$  appears as Input Voltage is gradually decreased.
  6. Semi-custom.

## Electrical Characteristics

XC62HR4002  $V_{OUT}(T)=4.0V$ (Note1)

$T_a=25^{\circ}C$

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	$V_{OUT}(E)$ (Note2)	$I_{OUT}=40mA$ $V_{IN}=5.0V$	3.920	4.000	4.080	V	1
Maximum Output Current	$I_{OUT\ max}$	$V_{IN}=5.0V$ , $V_{OUT}(E) \geq 3.6V$	200			mA	1
Load Stability	$\Delta V_{OUT}$	$V_{IN}=5.0V$ $1mA \leq I_{OUT} \leq 100mA$		45	90	mV	1
Input -Output Voltage Differential (Note3)	$V_{dif1}$	$I_{OUT}=80mA$		170	340	mV	1
	$V_{dif2}$	$I_{OUT}=180mA$		560	840	mV	1
Supply Current1	ISS1	$V_{IN}=V_{CE}=5.0V$		3.1	8.1	$\mu A$	2
Supply Current2	ISS2	$V_{IN}=5.0V$ , $V_{CE}=V_{SS}$			0.1	$\mu A$	2
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $5.0V \leq V_{IN} \leq 10.0V$		0.2	0.3	%/V	1
Input Voltage	$V_{IN}$				10.0	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $-30^{\circ}C \leq T_{opr} \leq 80^{\circ}C$		$\pm 100$		ppm/ $^{\circ}C$	1
CE "High" Voltage	$V_{CEH}$		1.5			V	1
CE "Low" Voltage	$V_{CEL}$				0.25	V	1
CE "High" Current	$I_{CEH}$	$V_{CE}=V_{IN}$			5.0	$\mu A$	2
CE "Low" Current	$I_{CEL}$	$V_{CE}=V_{SS}$	-0.2	-0.05	0	$\mu A$	2

- Note:
1.  $V_{OUT}(T)$ =Specified Output Voltage .
  2.  $V_{OUT}(E)$ =Effective Output Voltage (i.e. the output voltage when " $V_{OUT}(T)+1.0V$ " is provided at the  $V_{IN}$  pin while maintaining a certain  $I_{OUT}$  value).
  3.  $V_{dif} = \{V_{IN1} \text{ (Note5)} - V_{OUT1} \text{ (Note4)}\}$
  4.  $V_{OUT1}$ = A voltage equal to 98% of the Output Voltage whenever an amply stabilised  $I_{OUT}$  ( $V_{OUT}(T)+1.0V$ ) is input.
  5.  $V_{IN1}$ = The Input Voltage when  $V_{OUT1}$  appears as Input Voltage is gradually decreased.
  6. Semi-custom.

### Electrical Characteristics


XC62HR5002  $V_{OUT}(T)=5.0V$ (Note1)

$T_a=25^{\circ}C$

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	$V_{OUT}(E)$ (Note2)	$I_{OUT}=40mA$ $V_{IN}=6.0V$	4.900	5.000	5.100	V	1
Maximum Output Current	$I_{OUT\ max}$	$V_{IN}=6.0V$ , $V_{OUT}(E) \geq 4.5V$	220			mA	1
Load Stability	$\Delta V_{OUT}$	$V_{IN}=6.0V$ $1mA \leq I_{OUT} \leq 100mA$		40	80	mV	1
Input -Output Voltage Differential (Note3)	$V_{dif1}$	$I_{OUT}=100mA$		165	320	mV	1
	$V_{dif2}$	$I_{OUT}=200mA$		540	820	mV	1
Supply Current1	ISS1	$V_{IN}=V_{CE}=6.0V$		3.1	8.1	$\mu A$	2
Supply Current2	ISS2	$V_{IN}=6.0V$ , $V_{CE}=V_{SS}$			0.1	$\mu A$	2
Input Stability	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $6.0V \leq V_{IN} \leq 10.0V$		0.2	0.3	%/V	1
Input Voltage	$V_{IN}$				10.0	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta T_{opr} \cdot V_{OUT}}$	$I_{OUT}=40mA$ $-30^{\circ}C \leq T_{opr} \leq 80^{\circ}C$		$\pm 100$		ppm/ $^{\circ}C$	1
CE "High" Voltage	$V_{CEH}$		1.5			V	1
CE "Low" Voltage	$V_{CEL}$				0.25	V	1
CE "High" Current	$I_{CEH}$	$V_{CE}=V_{IN}$			5.0	$\mu A$	2
CE "Low" Current	$I_{CEL}$	$V_{CE}=V_{SS}$	-0.2	-0.05	0	$\mu A$	2

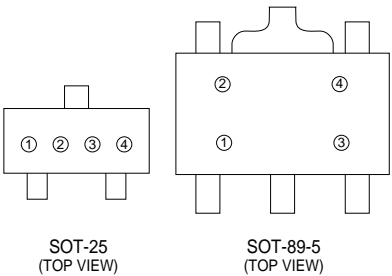
- Note:
- $V_{OUT}(T)$ =Specified Output Voltage .
  - $V_{OUT}(E)$ =Effective Output Voltage (i.e. the output voltage when " $V_{OUT}(T)+1.0V$ " is provided at the  $V_{IN}$  pin while maintaining a certain  $I_{OUT}$  value).
  - $V_{dif} = \{V_{IN1} \text{ (Note5)} - V_{OUT1} \text{ (Note4)}\}$
  - $V_{OUT1}$ = A voltage equal to 98% of the Output Voltage whenever an amply stabilised  $I_{OUT}$  ( $V_{OUT}(T)+1.0V$ ) is input.
  - $V_{IN1}$ = The Input Voltage when  $V_{OUT1}$  appears as Input Voltage is gradually decreased.
  - Semi-custom.

## Ordering Information

XC62Hxxxxxx  


DESIGNATOR	DESCRIPTION	DESIGNATOR	DESCRIPTION
a	True Logic Level at CE Pin: R=Positive P=Negative(Custom)	e	Package Type M=SOT-25 P=SOT-89-5
b	Output Voltage 30=3.0V 50=5.0V		
c	0	f	Device Orientation R=Embossed Tape (Orientation of Device:Right) L=Embossed Tape (Orientation of Device:Left)
d	Output Voltage Accuracy: 1=±1.0%(Semi-custom) 2=±2.0%		

## Marking



### ① Represents the integer of the Output Voltage

R TYPE POSITIVE VOLTAGE LOGIC SYMBOL	VOLTAGE(V)	P TYPE NEGATIVE VOLTAGE LOGIC SYMBOL	VOLTAGE(V)
0	0.②	0̄	0.②
1	1.②	1̄	1.②
2	2.②	2̄	2.②
3	3.②	3̄	3.②
4	4.②	4̄	4.②
5	5.②	5̄	5.②
6	6.②	6̄	6.②
7	7.②	7̄	7.②
8	8.②	8̄	8.②
9	9.②	9̄	9.②

### ② Represents the decimal point of the Output Voltage

SYMBOL	VOLTAGE(V)	SYMBOL	VOLTAGE(V)
0	①.0	0̄	①.0
1	①.1	1̄	①.1
2	①.2	2̄	①.2
3	①.3	3̄	①.3
4	①.4	4̄	①.4
5	①.5	5̄	①.5
6	①.6	6̄	①.6
7	①.7	7̄	①.7
8	①.8	8̄	①.8
9	①.9	9̄	①.9

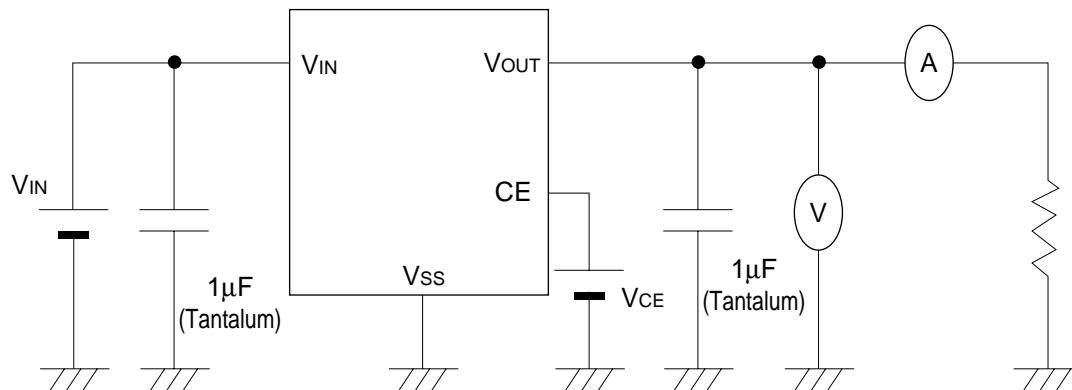
### ③ Based on internal standards

SYMBOL
-

### ④ Represents the assembly lot no. 0-9,A-Z repeated (G, I, J, O, Q, W excepted)

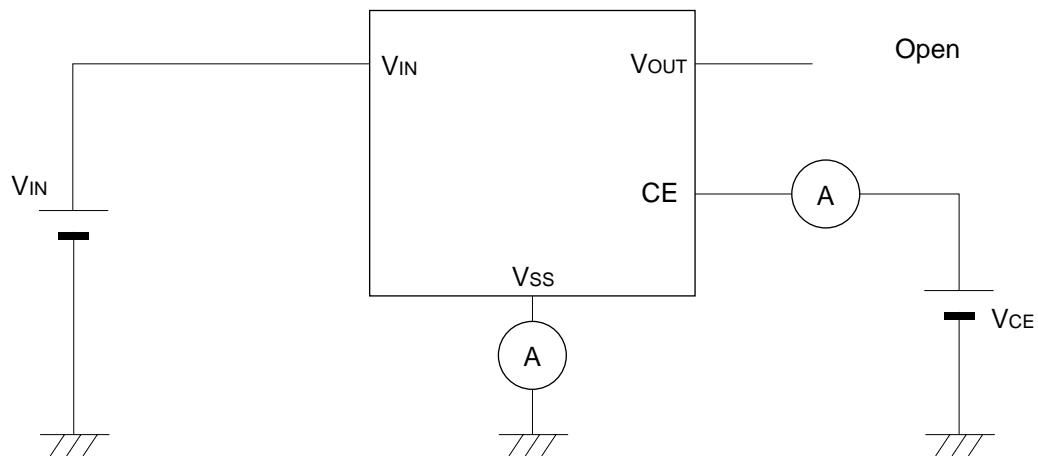
### ■ Typical Application Circuit

Circuit 1



### ■ Typical Application Circuit

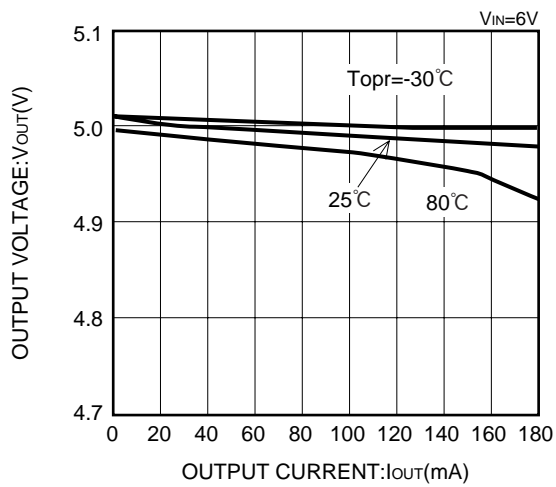
Circuit 2



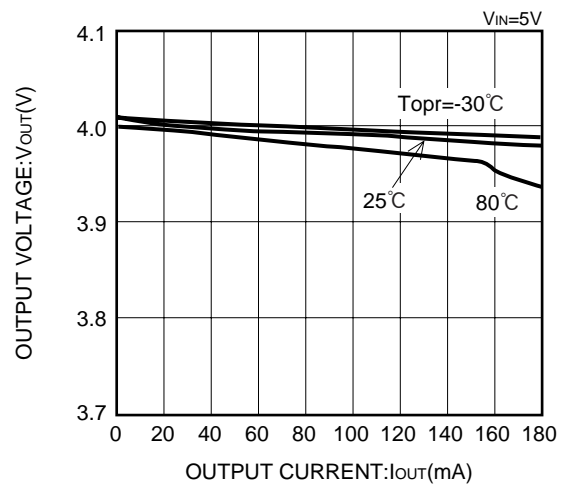


(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT

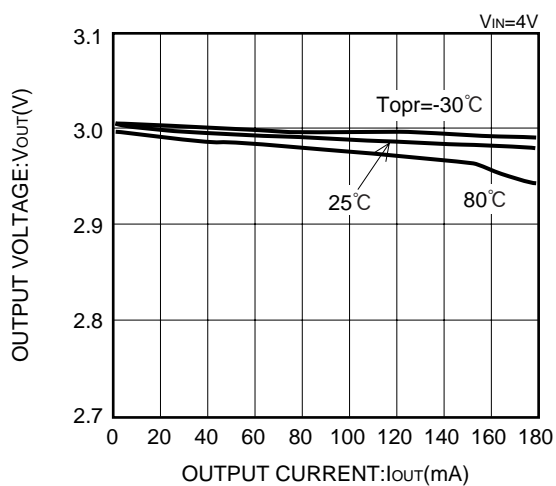
XC62HR5002 (5V)



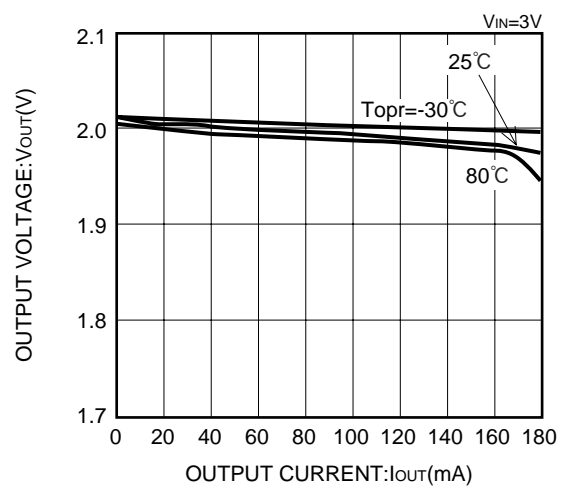
XC62HR4002 (4V)



XC62HR3002 (3V)

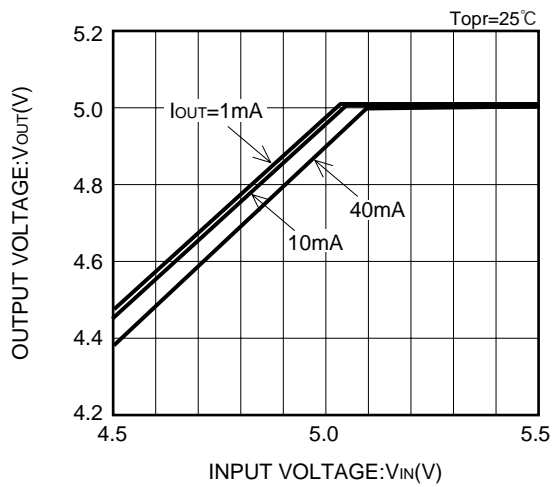


XC62HR2002 (2V)

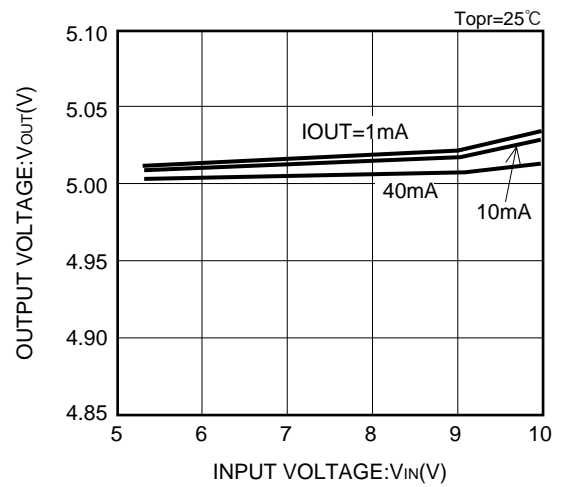


### (2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

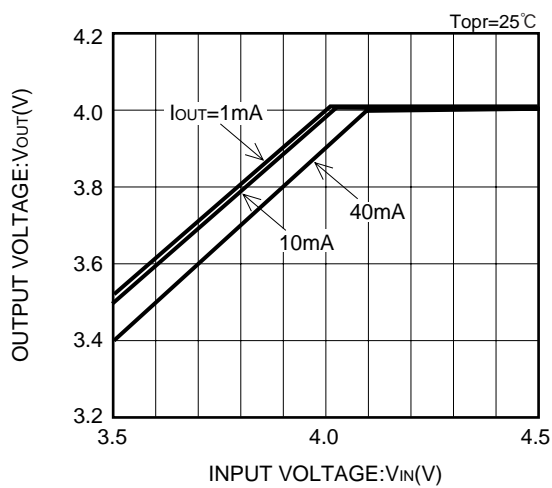
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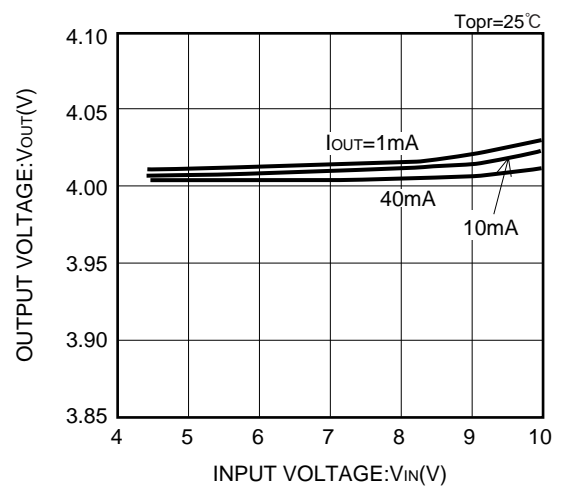
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XC62HR4002 (4V)

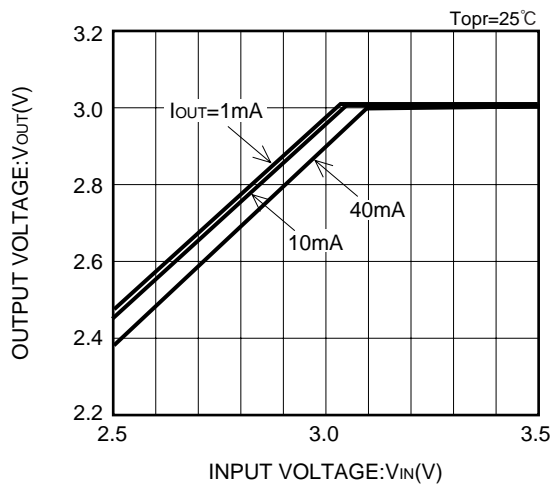


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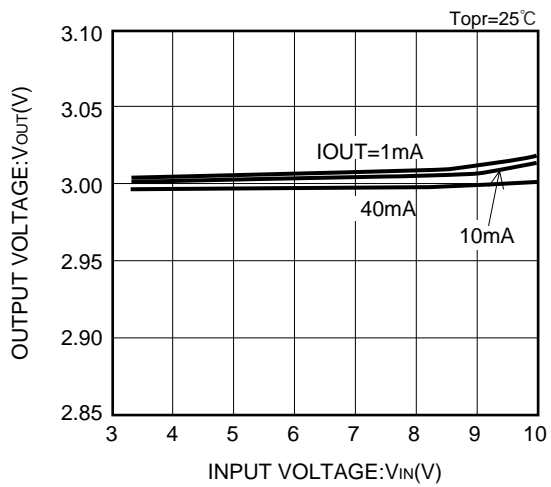


(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE (CONTINUED)

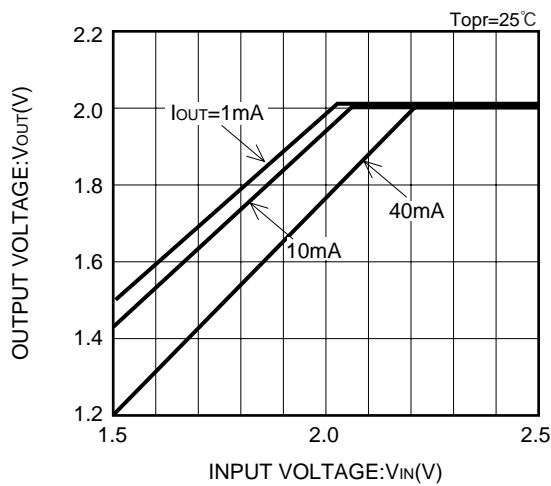
XC62HR3002 (3V)



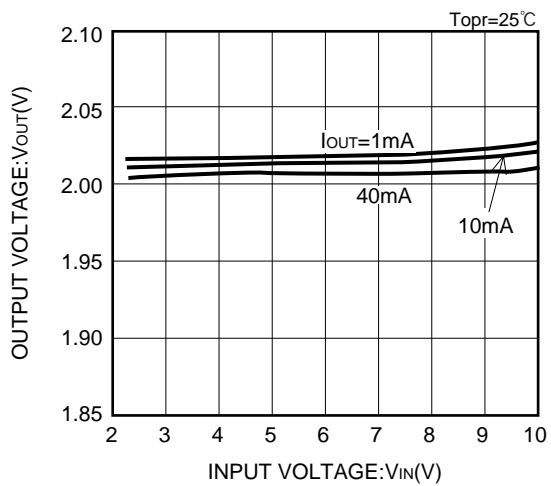
XC62HR3002 (3V)



XC62HR2002 (2V)

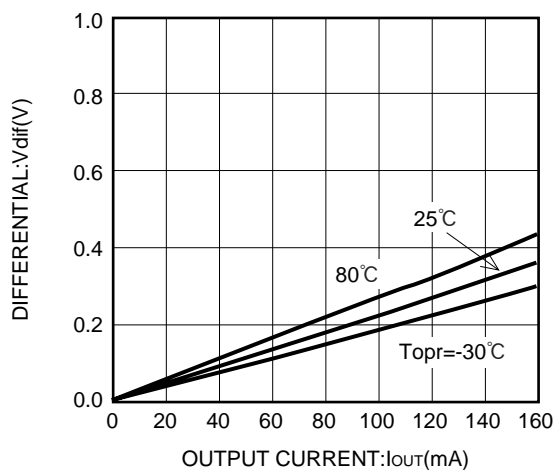


XC62HR2002 (2V)

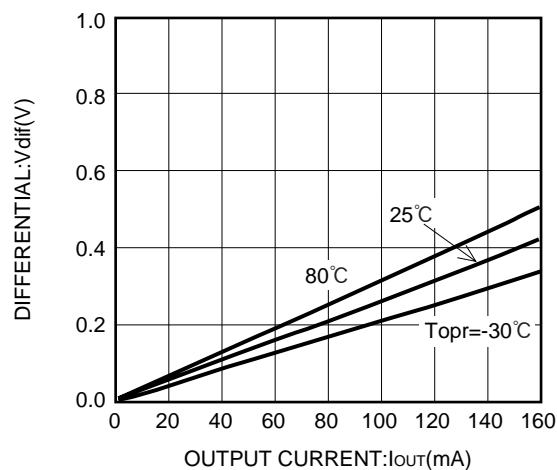


### (3) INPUT/OUTPUT VOLTAGE DIFFERENTIAL vs. OUTPUT CURRENT

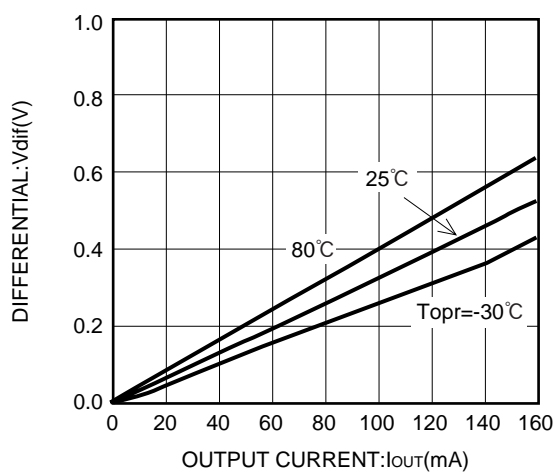
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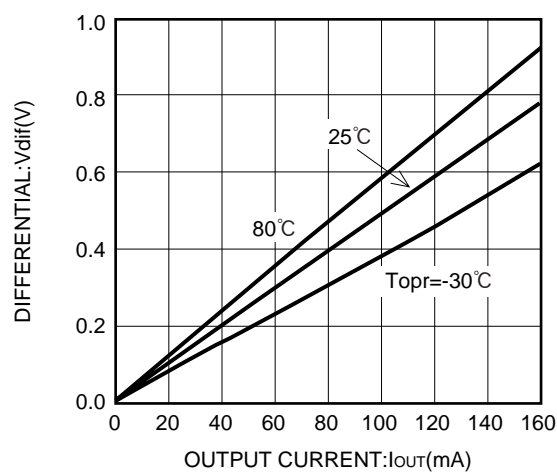
XC62HR4002 (4V)



XC62HR3002 (3V)

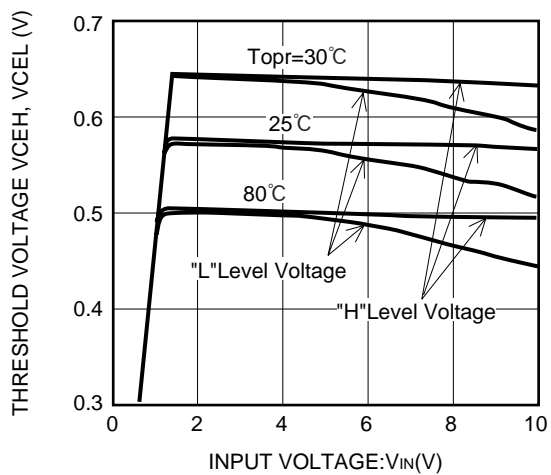


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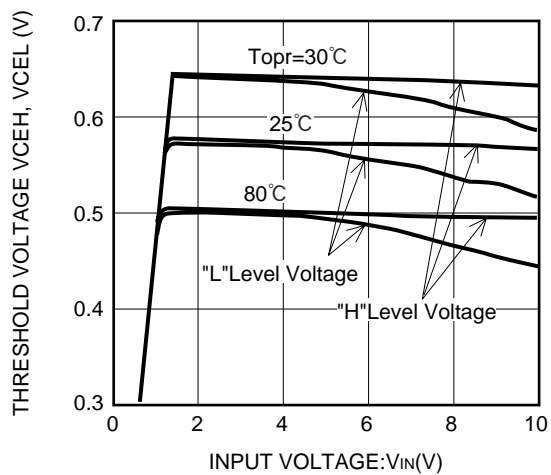


(4) CE PIN THRESHOLD VOLTAGE vs. INPUT VOLTAGE

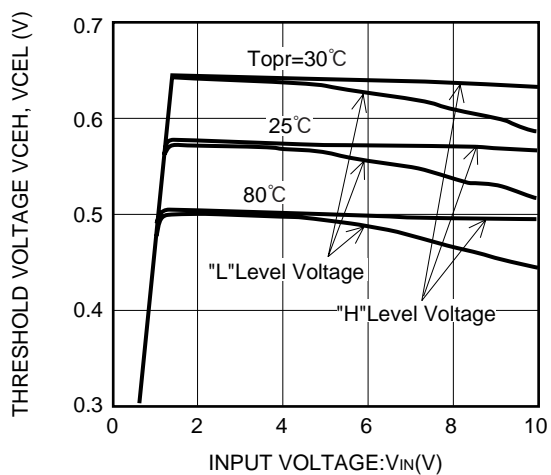
XC62HR5002 (5V)



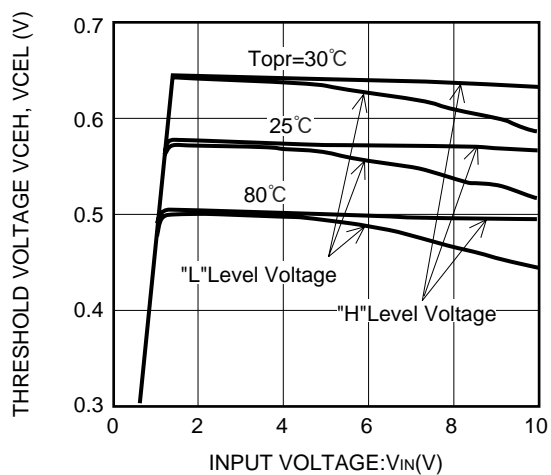
XC62HR4002 (4V)



XC62HR3002 (3V)

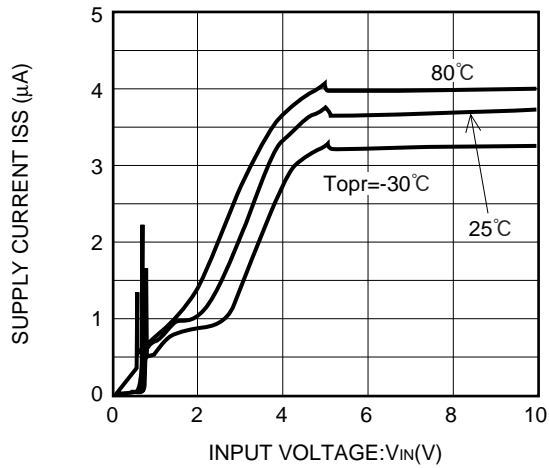


XC62HR2002 (2V)

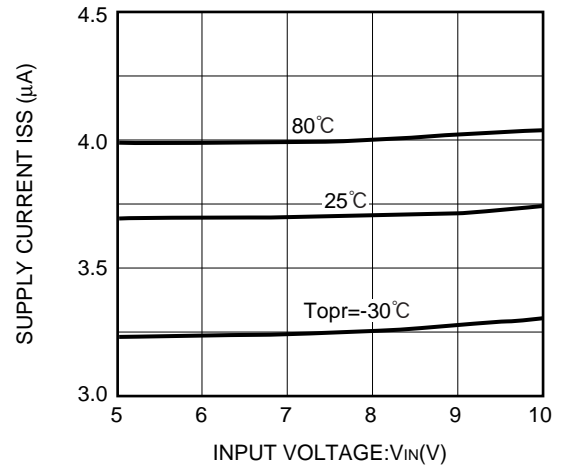


### (5) SUPPLY CURRENT vs. INPUT VOLTAGE

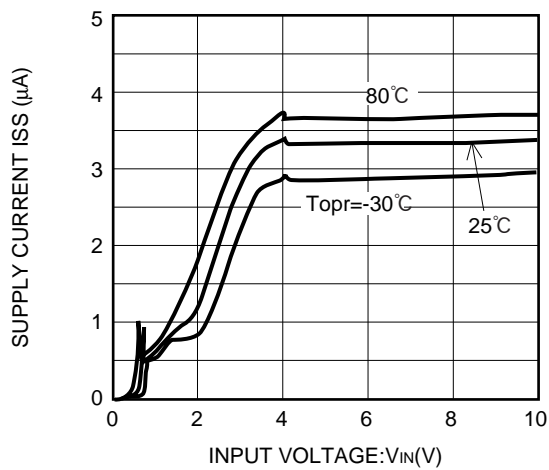
XC62HR5002 (5V)



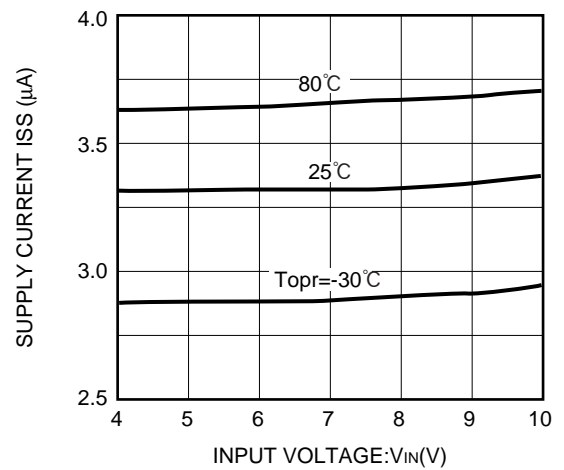
XC62HR5002 (5V)



XC62HR4002 (4V)

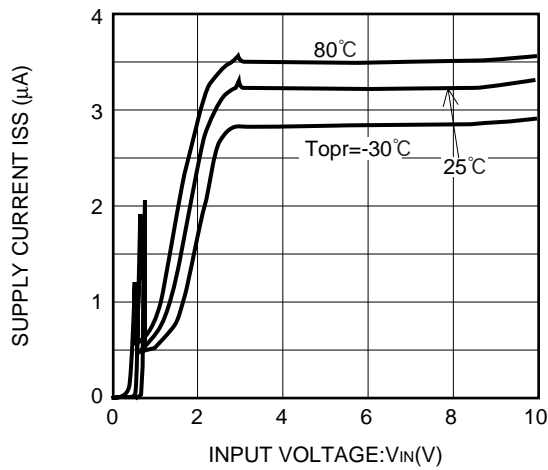


XC62HR4002 (4V)

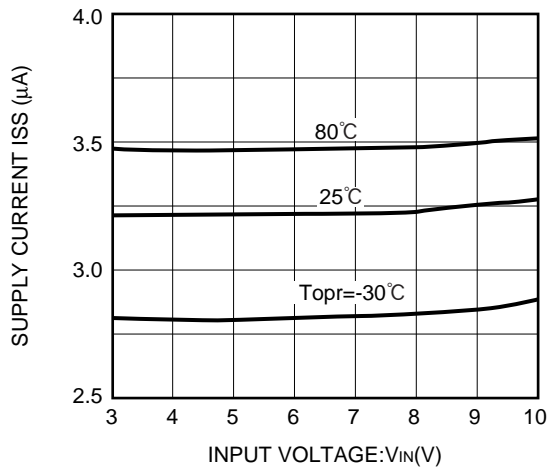


(5) SUPPLY CURRENT vs. INPUT VOLTAGE (CONTINUED)

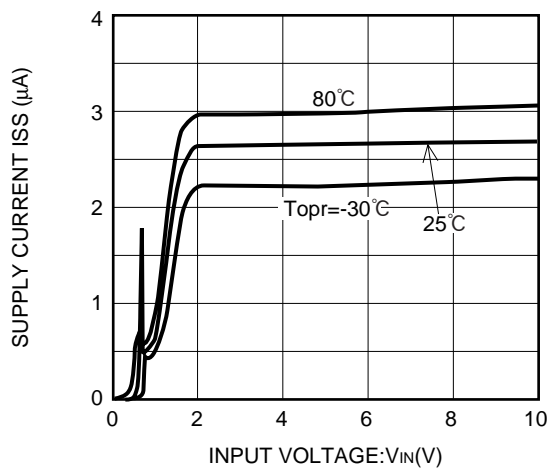
XC62HR3002 (3V)



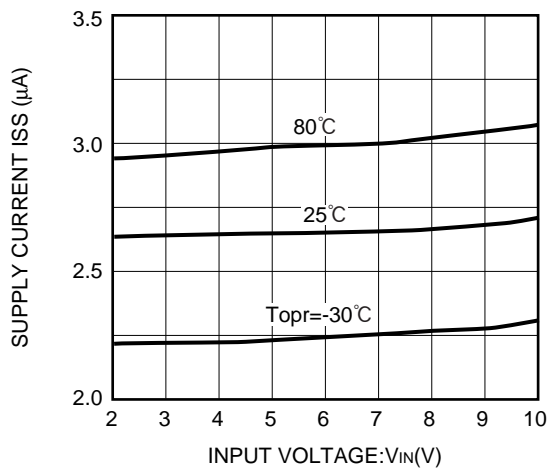
XC62HR3002 (3V)



XC62HR2002 (2V)

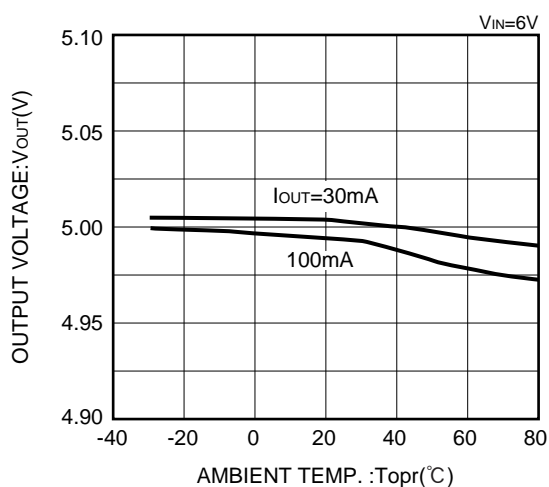


XC62HR2002 (2V)

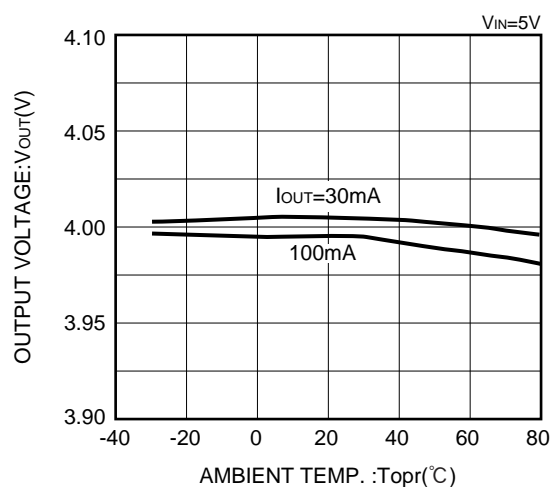


### (6) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE

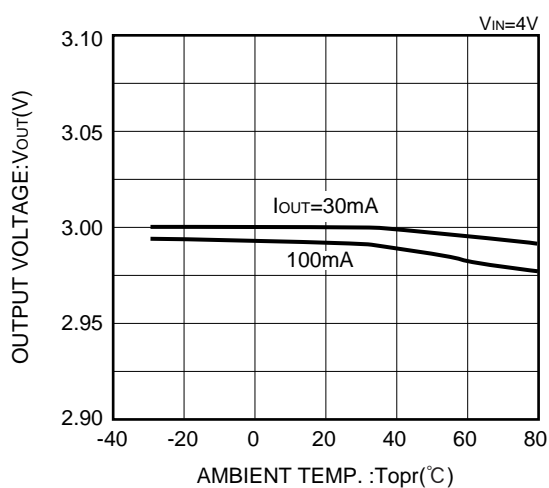
XC62HR5002 (5V)



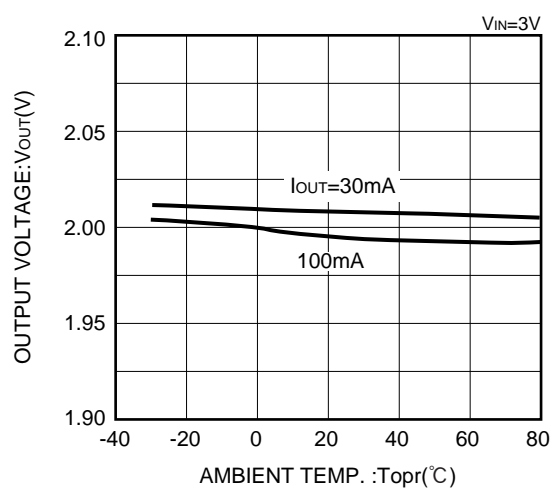
XC62HR4002 (4V)



XC62HR3002 (3V)



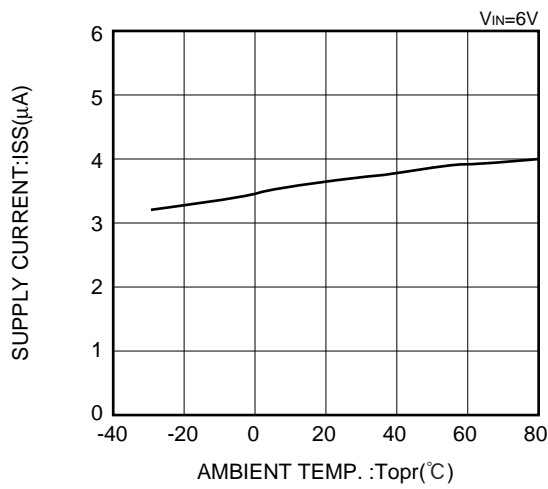
XC62HR2002 (2V)



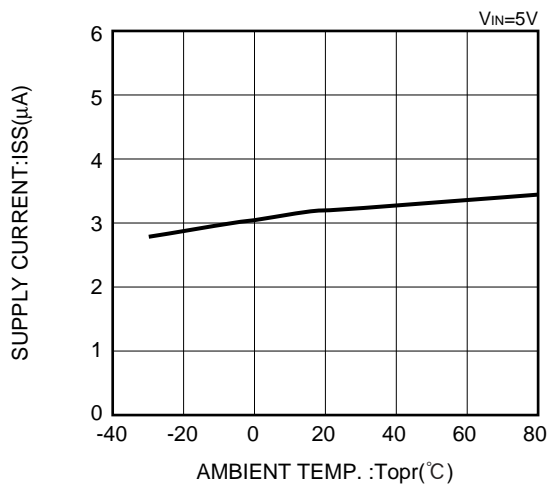


(7) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

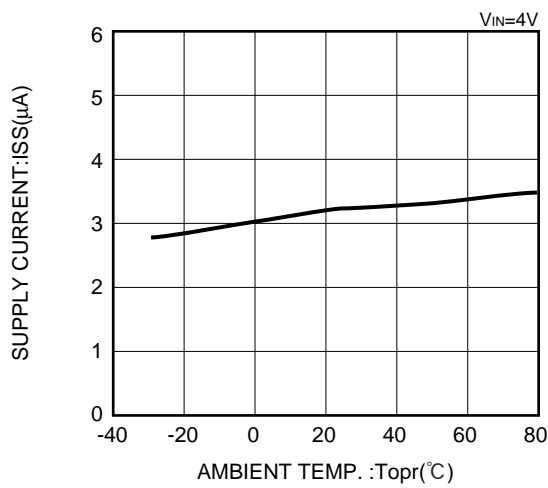
XC62HR5002 (5V)



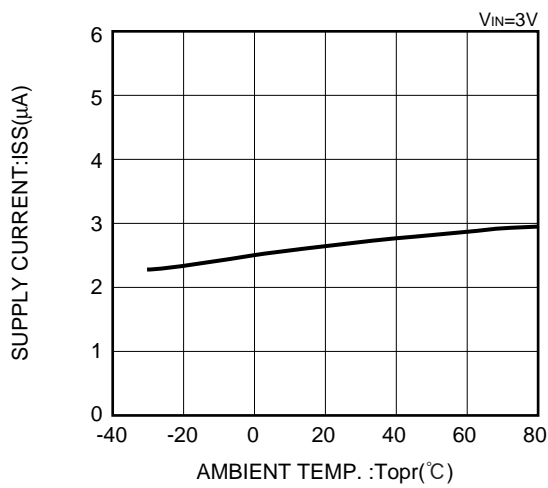
XC62HR4002 (4V)



XC62HR3002 (3V)

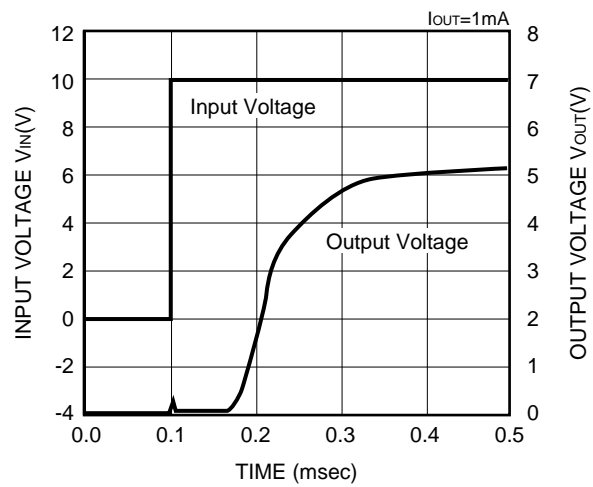


XC62HR2002 (2V)

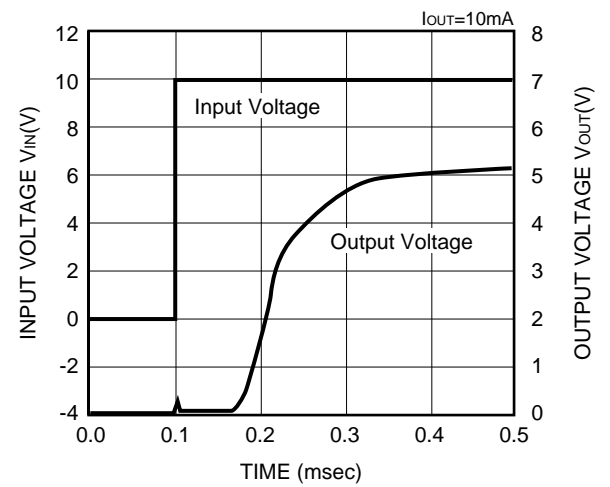


### (8) INPUT TRANSIENT RESPONSE 1

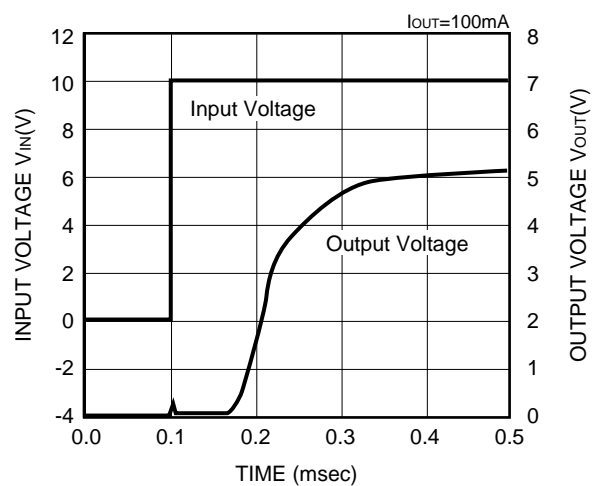
XC62HR5002 (5V)



XC62HR5002 (5V)

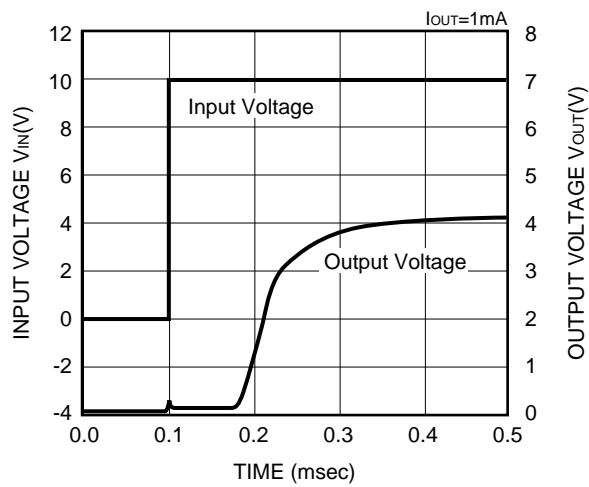


XC62HR5002 (5V)

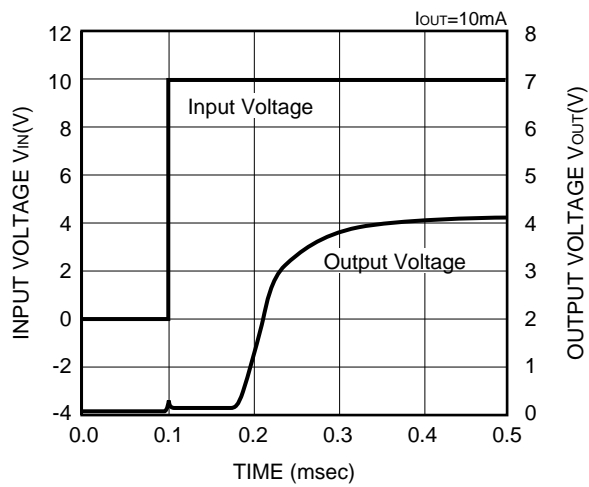


(8) INPUT TRANSIENT RESPONSE 1 (CONTINUED)

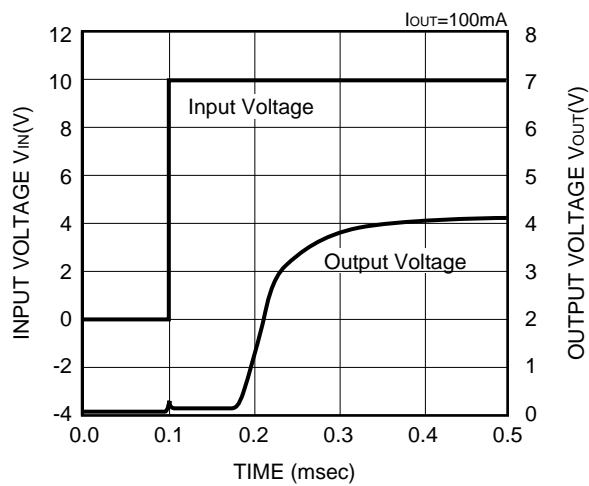
XC62HR4002 (4V)



XC62HR4002 (4V)

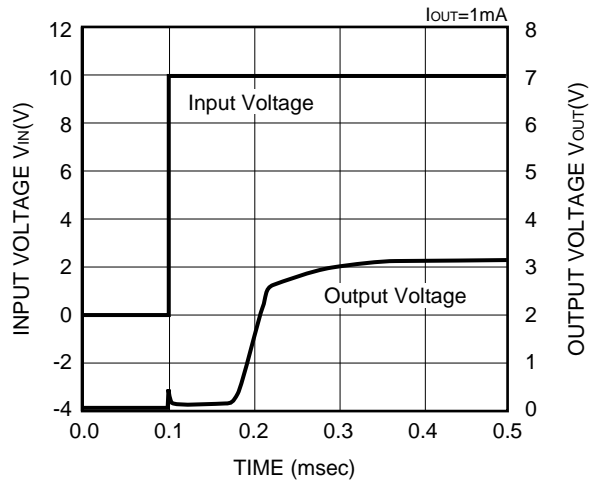


XC62HR4002 (4V)

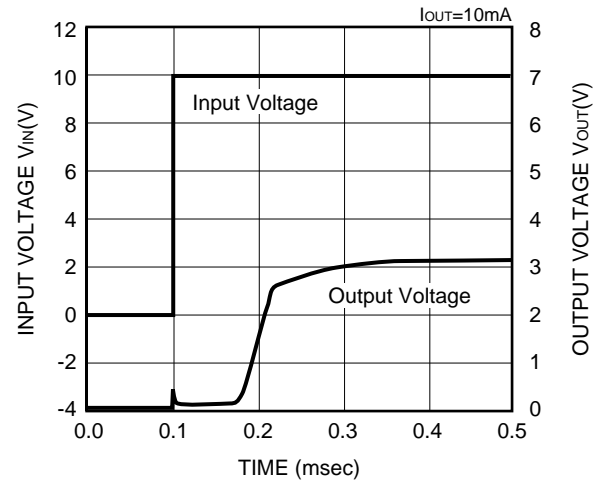


### (8) INPUT TRANSIENT RESPONSE 1 (CONTINUED)

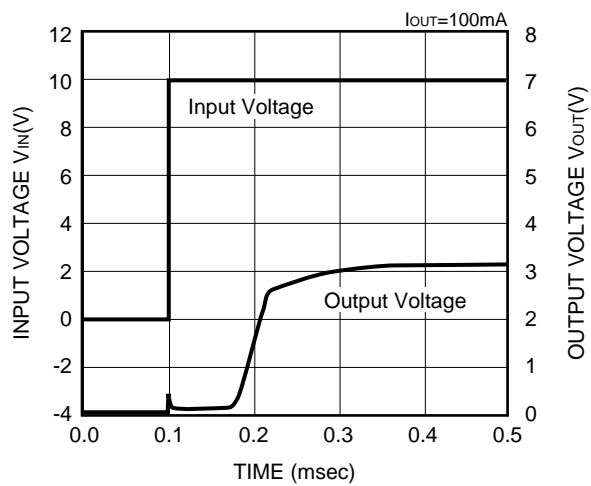
XC62HR3002 (3V)



XC62HR3002 (3V)

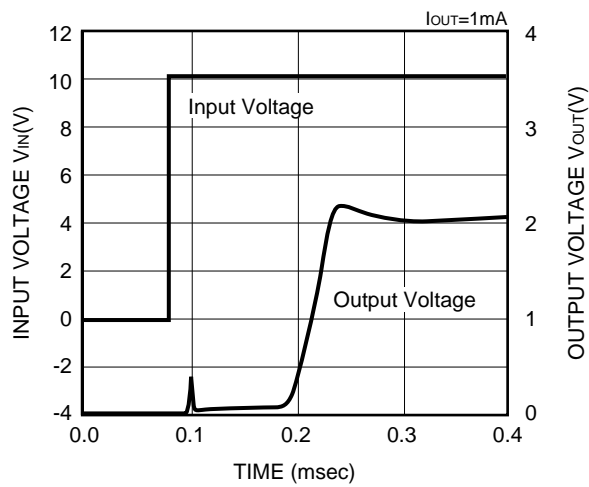


XC62HR3002 (3V)

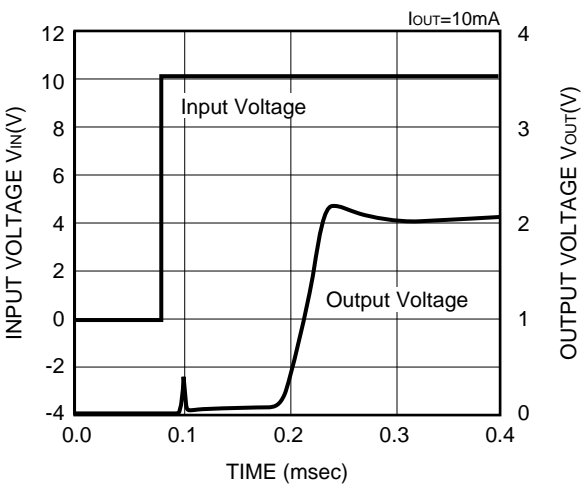


(8) INPUT TRANSIENT RESPONSE 1 (CONTINUED)

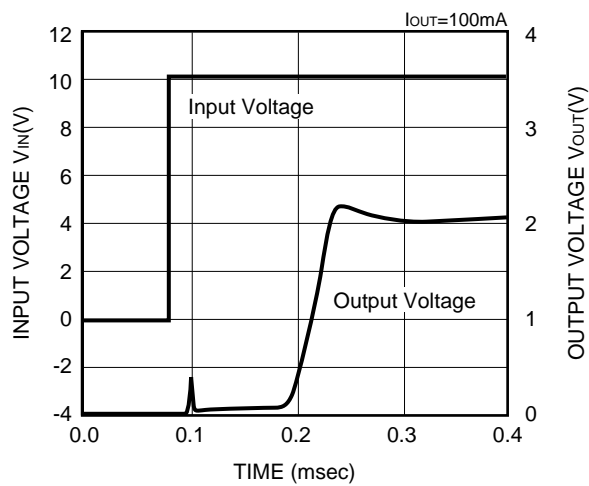
XC62HR2002 (2V)



XC62HR2002 (2V)

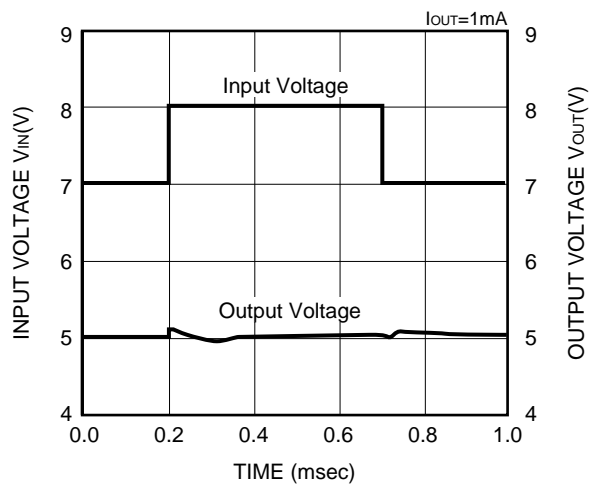


XC62HR2002 (2V)

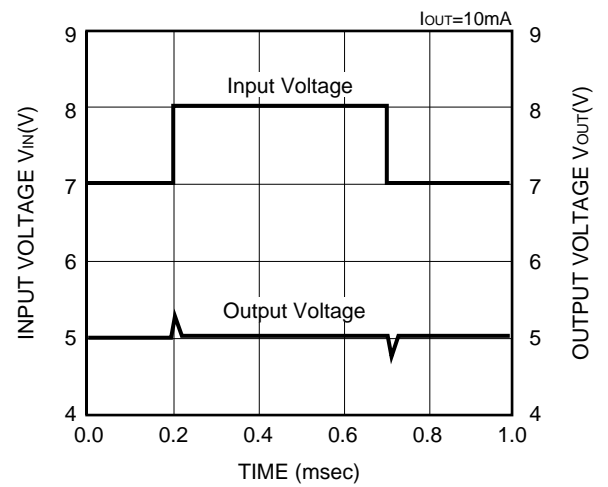


### (9) INPUT TRANSIENT RESPONSE 2

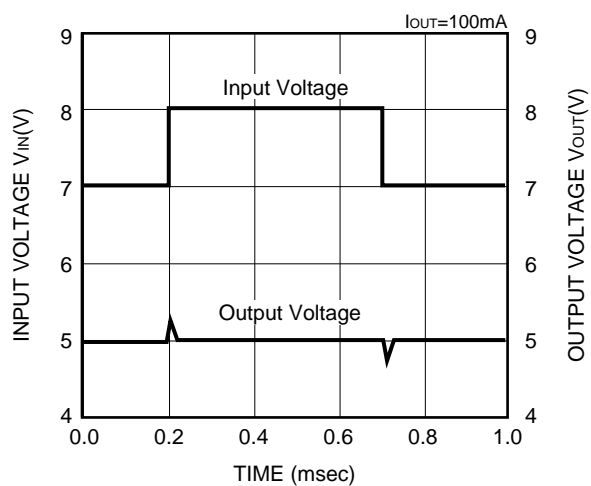
XC62HR5002 (5V)



XC62HR5002 (5V)

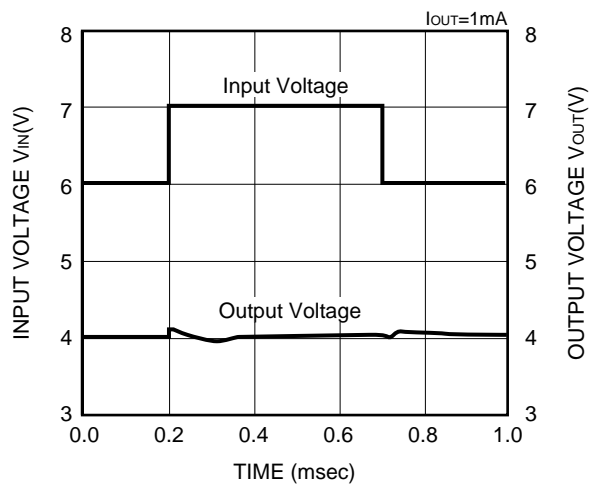


XC62HR5002 (5V)

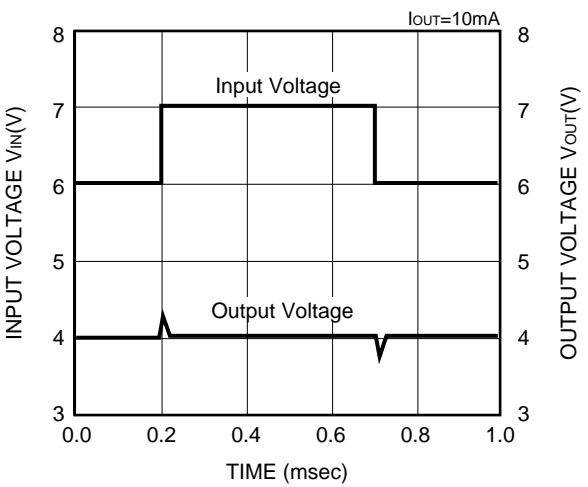


(9) INPUT TRANSIENT RESPONSE 2 (CONTINUED)

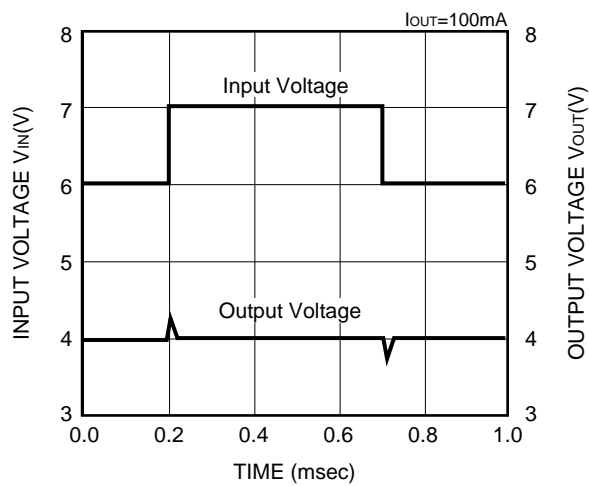
XC62HR4002 (4V)



XC62HR4002 (4V)

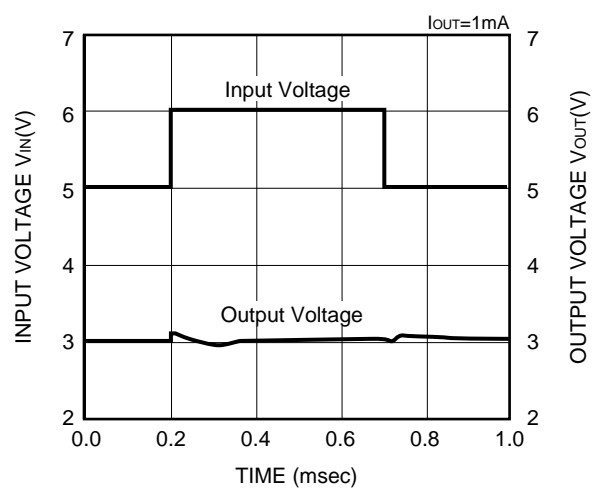


XC62HR4002 (4V)

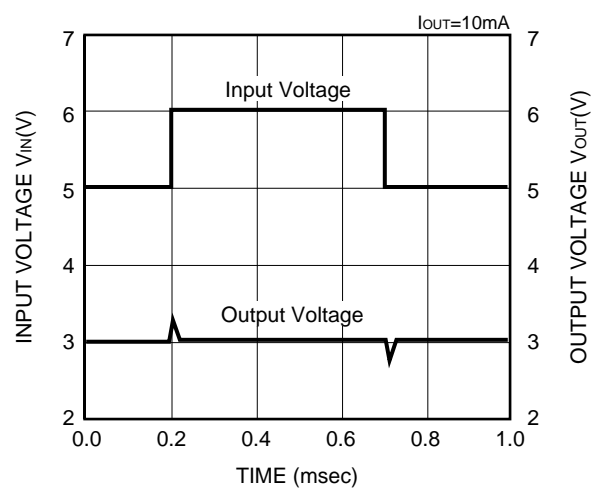


### (9) INPUT TRANSIENT RESPONSE 2 (CONTINUED)

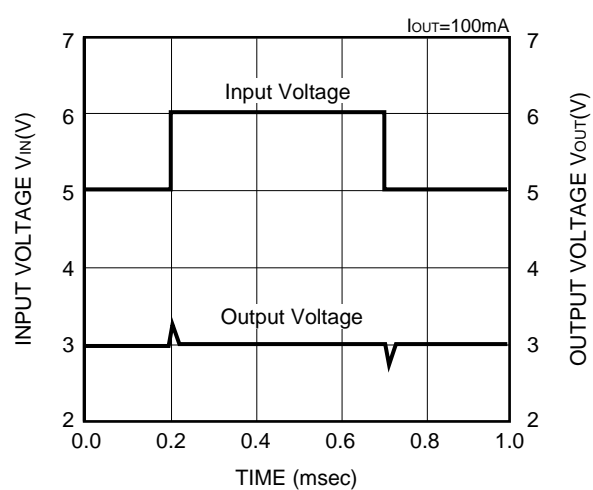
XC62HR3002 (3V)



XC62HR3002 (3V)



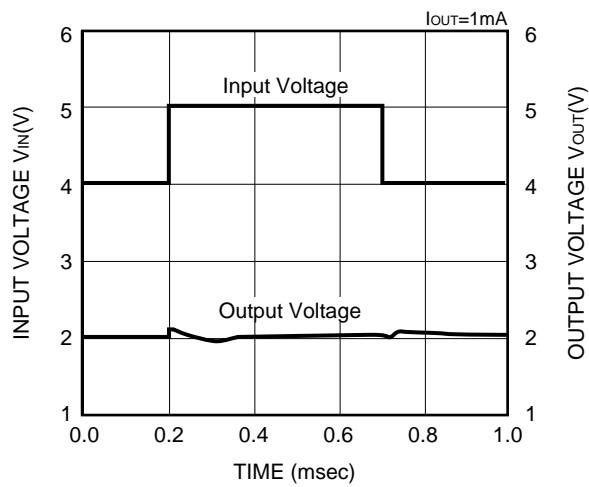
XC62HR3002 (3V)



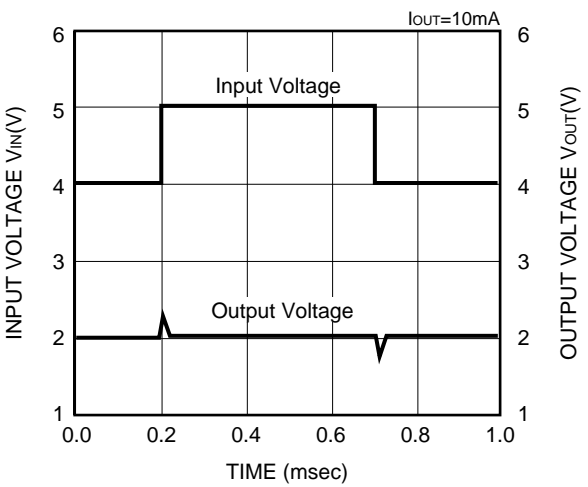


(9) INPUT TRANSIENT RESPONSE 2 (CONTINUED)

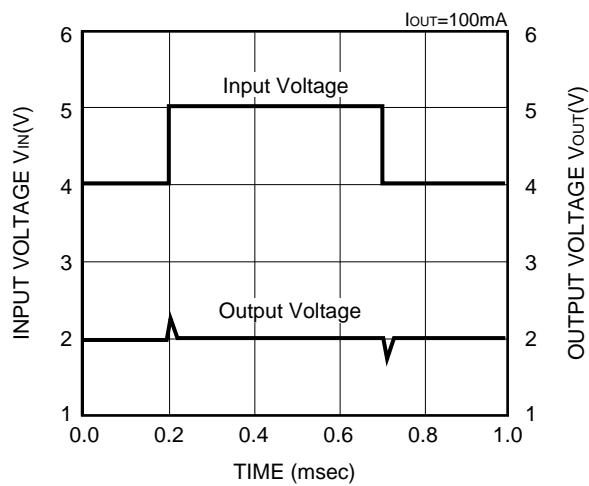
XC62HR2002 (2V)



XC62HR2002 (2V)

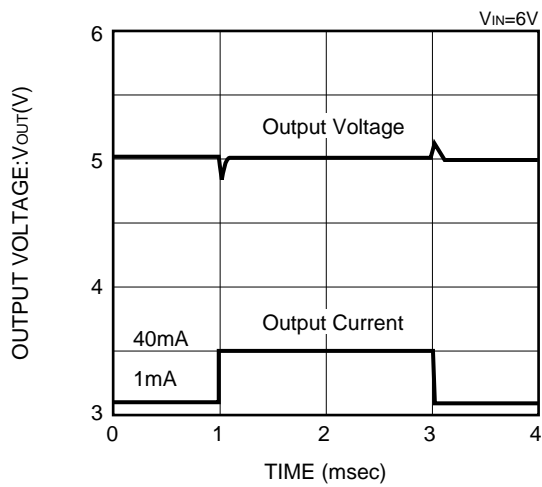


XC62HR2002 (2V)

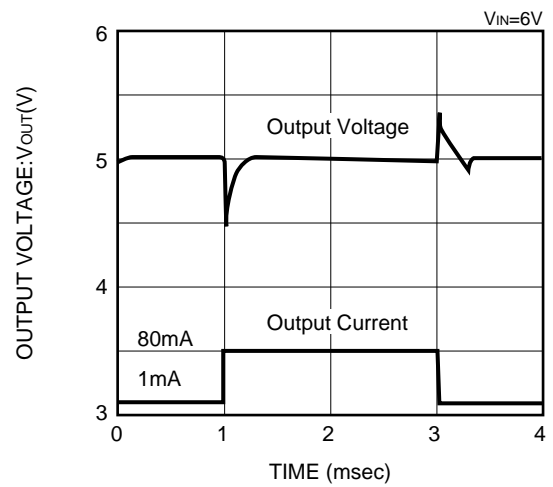


### (10) LOAD TRANSIENT RESPONSE

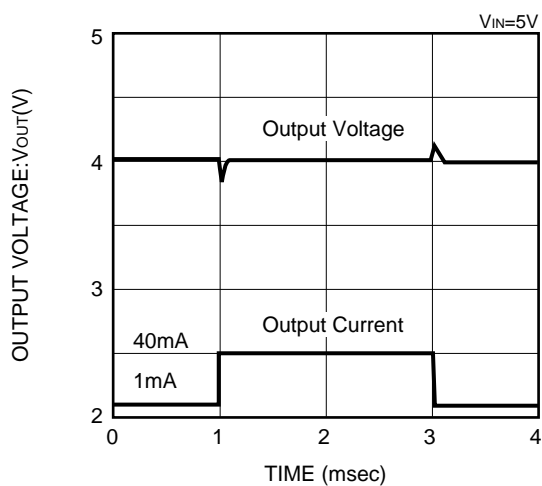
XC62HR5002 (5V)



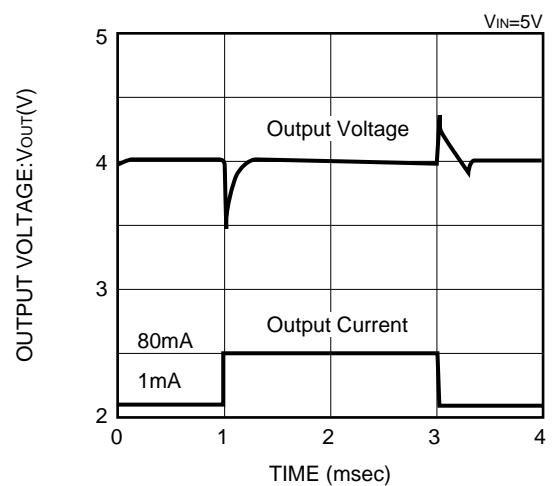
XC62HR5002 (5V)



XC62HR4002 (4V)

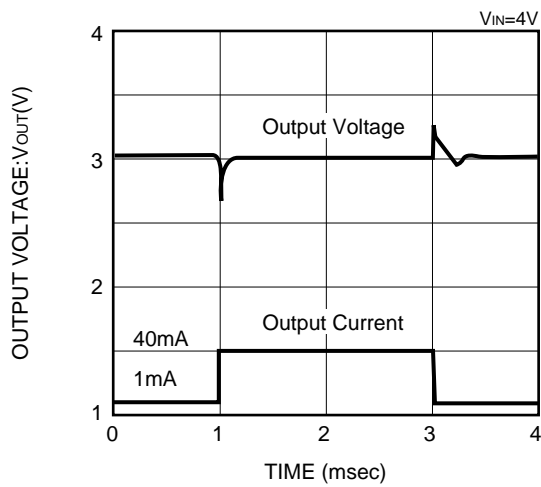


XC62HR4002 (4V)

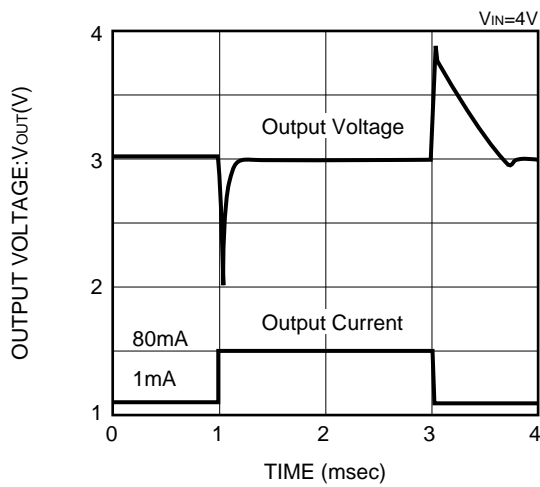


(10) LOAD TRANSIENT RESPONSE (CONTINUED)

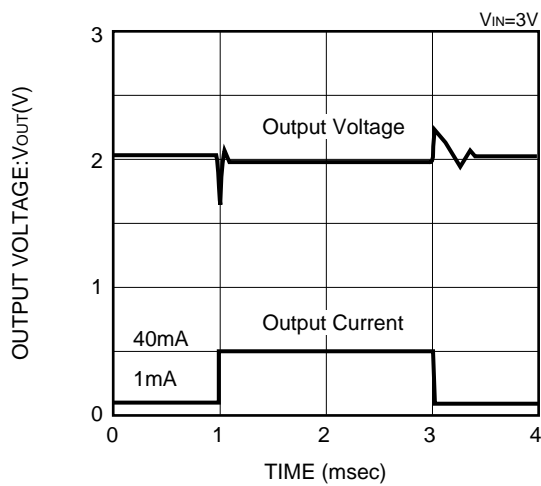
XC62HR3002 (3V)



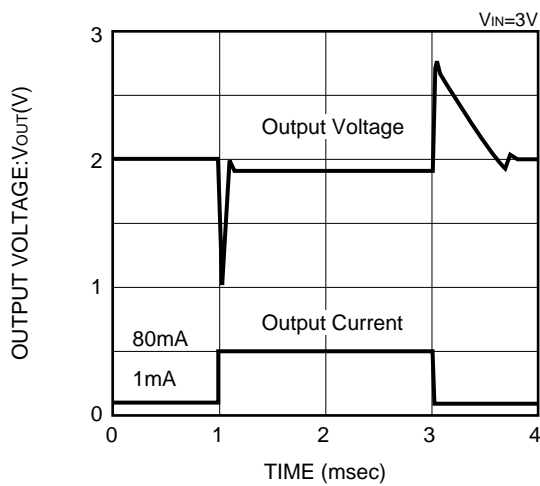
XC62HR3002 (3V)



XC62HR2002 (2V)

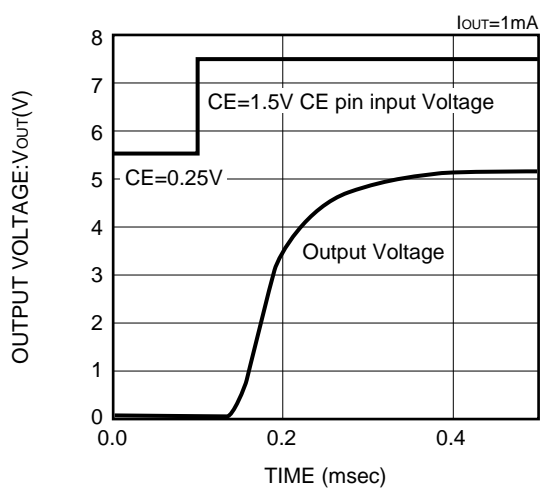


XC62HR2002 (2V)

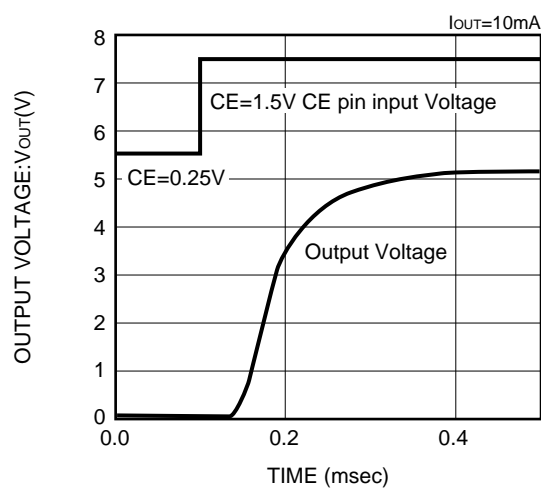


### (11) CE PIN TRANSIENT RESPONSE

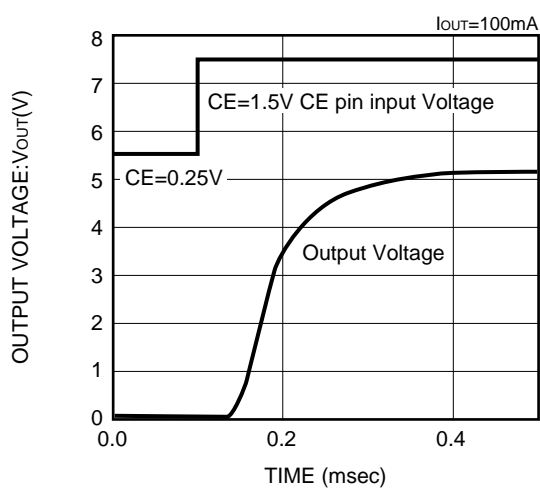
XC62HR5002 (5V)



XC62HR5002 (5V)

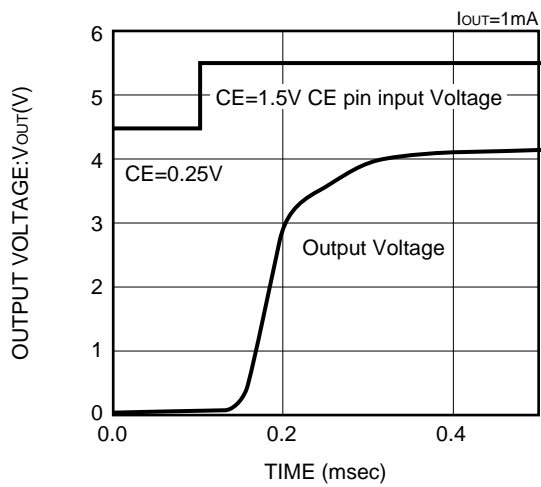


XC62HR5002 (5V)

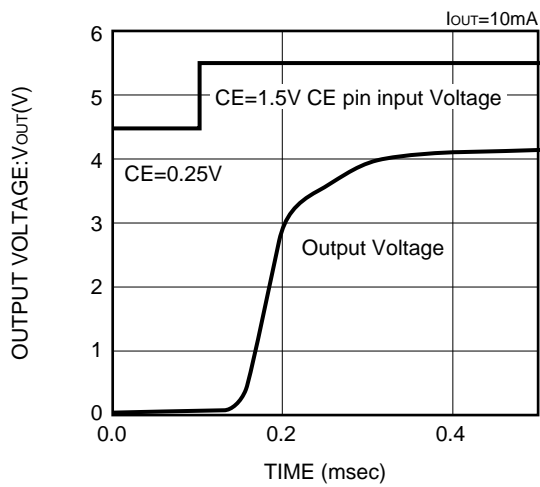


(11) CE PIN TRANSIENT RESPONSE (CONTINUED)

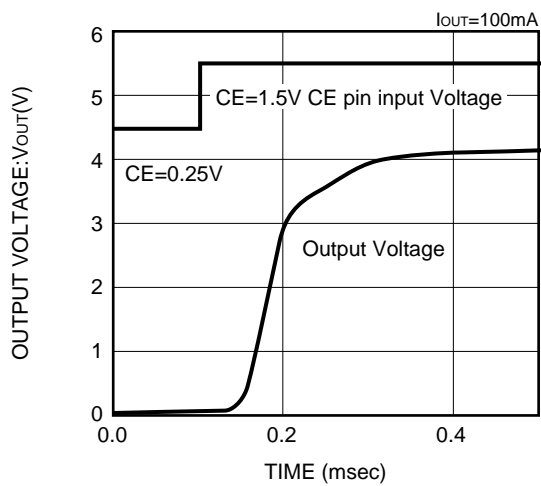
XC62HR4002 (4V)



XC62HR4002 (4V)

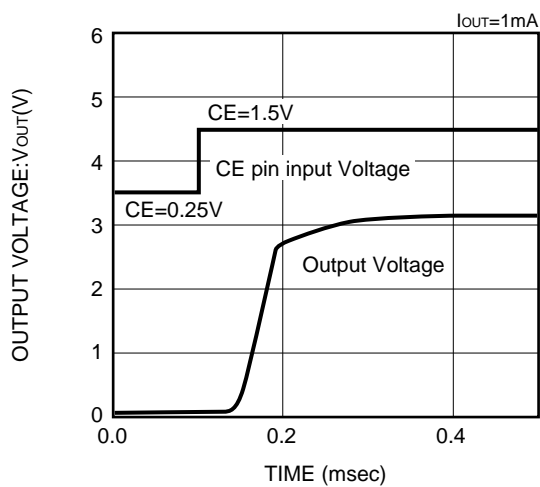


XC62HR4002 (4V)

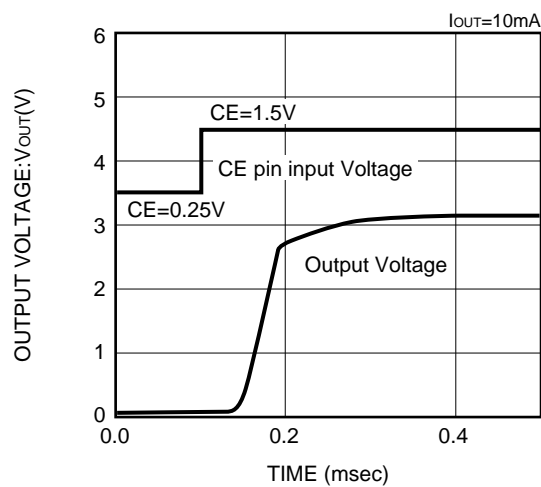


### (11) CE PIN TRANSIENT RESPONSE (CONTINUED)

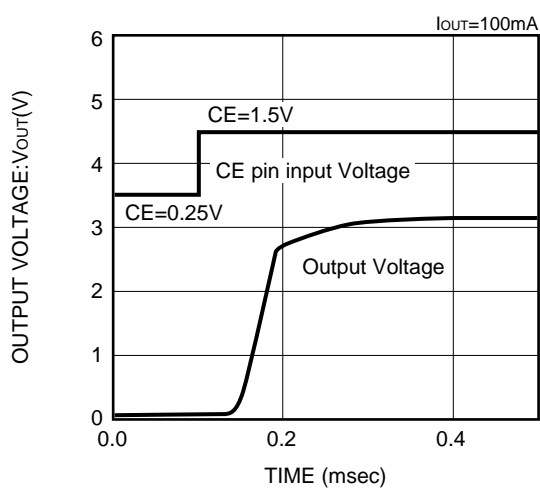
XC62HR3002 (3V)



XC62HR3002 (3V)

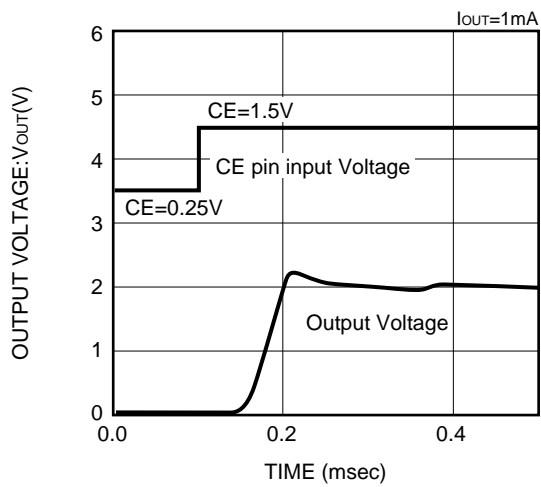


XC62HR3002 (3V)

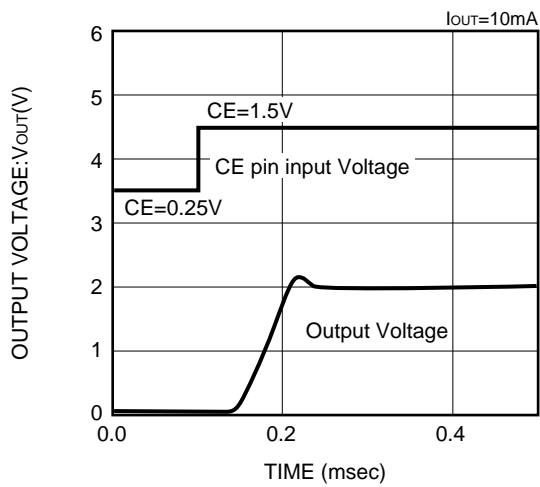


(11) CE PIN TRANSIENT RESPONSE (CONTINUED)

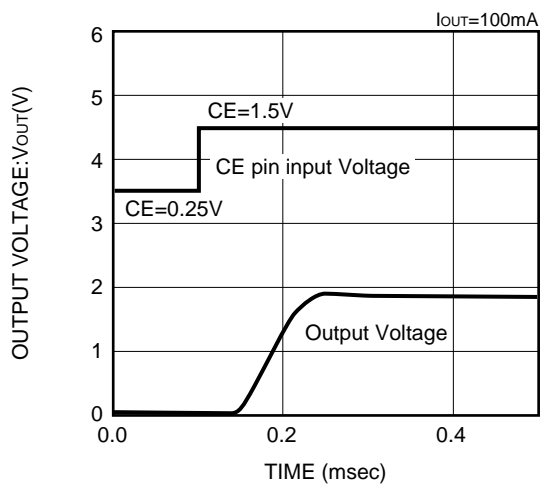
XC62HR2002 (2V)



XC62HR2002 (2V)

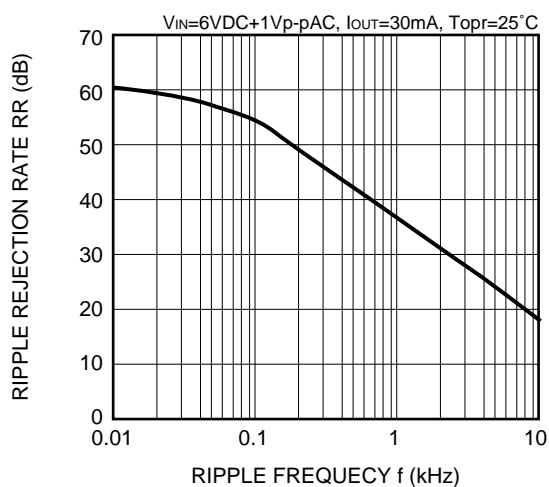


XC62HR2002 (2V)

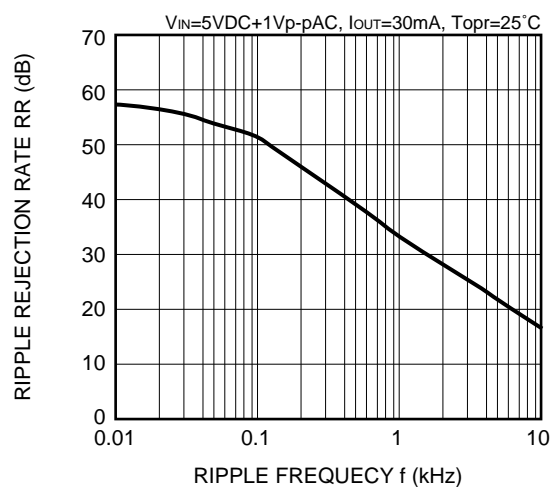


### (12) RIPPLE REJECTION RATE

**XC62HR5002**



**XC62HR4002**



**XC62HR3002**

