ELM99xxxxxxBW CMOS Middle current dual voltage regulator

■General description

ELM99xxxxxxBW is CMOS dual voltage regulator providing large current which contains 2 ELM99 series ICs. It consists of 2 sets of reference voltage source, error amplifier, low resistance output transistor, short-circuit protection circuit, output voltage setting resistor and chip-enable circuit. ELM99W series is characterized with small input/output voltage difference (with its low resistance output transistor) and high load stability (with its high gain error amplifier). There are 3 types of CE selection of ELM99W series: non-chip enable function, "L"active and "H"active. The standard output voltages are 2.7V, 3.0V, 3.3V, 5.0V; ELM99W can also be made as semi-custom IC within the range of 1.5V～6.0V by 0.1V step.

■Features

- Output voltage range : 1.5V～6.0V (by 0.1V)
- Max. output current : 300mA
  (Internal current limiter operates when the current exceeds 300mA)
- Stand-by current consumption : Typ. 0.1μA ("H"active)
- Input stability : Typ. 0.15%/V (Vout=3.0V, Iout=40mA)
- Load stability : Typ. 5mV (1mA≦Iout≦100mA)
- Accuracy of output voltage : ±2.0%
- Input/Output voltage differential : Typ. 140mV (Vout=3.0V, Iout=40mA)
- Short-circuit current limiter : Typ. 70mA (Vout=0V)
- Chip-enable pin : "L"active
  "H"active
- Package : TSSOP-8

■Application

- Battery operated devices
- Digital cameras
- Video recorders
- Reference voltage source
- Cell phones

■Maximum absolute ratings

Parameter	Symbol	Limit	Unit
Input voltage	Vin	12	V
$\overline{CE}$/CE Input voltage	Vce	Vss-0.3～Vin+0.3	V
Output voltage	Vout	Vss-0.3～Vin+0.3	V
Output current	Iout	500	mA
Power dissipation	Pd	300	mW
Operationg temperature	Top	-40～+85	℃
Storage temperature	Tstg	-55～+125	℃

*Output current must not exceed power dissipation specified in maximum absolute ratings.

■Selection guide

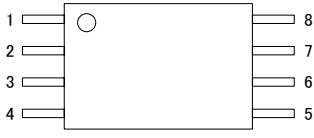
ELM99xxxxxxBW-x

Symbol		
a,b	Output voltage	e.g. : 27:Vout=2.7V 30:Vout=3.0V 33:Vout=3.3V 50:Vout=5.0V
c	CE selection	1 : No CE 2 : $\overline{CE}$="L"active 3 : CE="H"active
d,e	Output voltage	e.g. : 27:Vout=2.7V 30:Vout=3.0V 33:Vout=3.3V 50:Vout=5.0V
f	CE selection	1 : No CE 2 : $\overline{CE}$= "L"active 3 : CE="H"active
g	Product version	B
h	Dual mark	W: dual
i	Taping direction	S : Refer to PKG file N : Refer to PKG file

ELM99 x x x x x x B W − x
↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
a b c d e f g h i

■Pin configuration

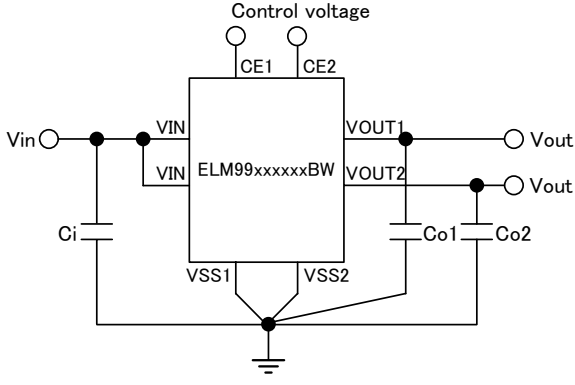
TSSOP-8 (TOP VIEW)



Pin No.	Pin name
1	CE1 or NC
2	VSS1
3	VIN
4	VOUT1
5	VOUT2
6	VSS2
7	CE2 or NC
8	VIN

＊: Pin NO.1 or NO.7 is NC if ELM99xx1B is included in the combination.

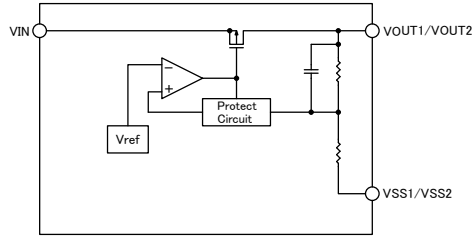
■Standard circuit



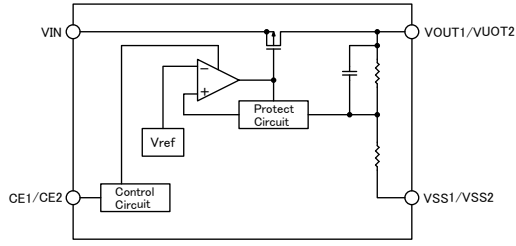
＊: CE1, CE2:
No connection if IC has no CE function Low or High active if IC has CE function

■Block diagram

No CE unit



CE available unit



(This IC consists of two above-mentioned ICs)

■Electrical characteristics (ELM99xx1xx1BW)

Vout=2.7V, No CE pin　　Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=3.7V, Iout=40mA	2.646	2.700	2.754	V
Output current	Iout	Vin=3.7V, Lower by 0.1V than Vout	150	260		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.7V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=3.7V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		190	320	mV
Current consumption	Iss	Vin=3.7V, No-load		25	45	μA
Input voltage	Vin				8	V
Output voltage temperature coefficient	ΔVout/ΔTop	Vin=3.7V, Iout=40mA, -40℃≦Top≦+85℃		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.0V, No CE pin Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.0V, Iout=40mA	2.940	3.000	3.060	V
Output current	Iout	Vin=4.0V, Lower by 0.1V than Vout	160	290		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		170	280	mV
Current consumption	Iss	Vin=4.0V, No-load		25	45	μA
Input voltage	Vin				8	V
Output voltage temperature coefficient	ΔVout/ΔTop	Vin=4.0V, Iout=40mA, -40℃≦Top≦+85℃		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.3V, No CE pin Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.3V, Iout=40mA	3.234	3.300	3.366	V
Output current	Iout	Vin=4.3V, Lower by 0.1V than Vout	170	300		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.3V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.3V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		150	265	mV
Current consumption	Iss	Vin=4.3V, No-load		25	45	μA
Input voltage	Vin				8	V
Output voltage temperature coefficient	ΔVout/ΔTop	Vin=4.3V, Iout=40mA, -40℃≦Top≦+85℃		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=5.0V, No CE pin Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=6.0V, Iout=4mA	4.900	5.000	5.100	V
Output current	Iout	Vin=6.0V, Lower by 0.1V than Vout	200	330		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 6.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=6.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		125	220	mV
Current consumption	Iss	Vin=6.0V, No-load		30	55	μA
Input voltage	Vin				8	V
Output voltage temperature coefficient	ΔVout/ΔTop	Vin=6.0V, Iout=40mA, -40℃≦Top≦+85℃		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

■Electrical characteristics (ELM99xx2xx2BW)

Vout=2.7V, $\overline{CE}$="L"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=3.7V, Iout=40mA	2.646	2.700	2.754	V
Output current	Iout	Vin=3.7V, Lower by 0.1V than Vout	150	260		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.7V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=3.7V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		190	320	mV
Current consumption	Iss	Vin=3.7V		25	45	μA
Stand-by current consumption	Istandby	Vin=Vce=3.7V		0.005	0.100	μA
Input voltage	Vin				8	V
$\overline{CE}$ Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
$\overline{CE}$ Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
$\overline{CE}$ Input current High	Iceh	Vce=Vin		0.0	0.2	μA
$\overline{CE}$ Input current Low	Icel	Vce=Vss	-1.5	-0.4		
Output voltage temperature coefficient	ΔVout/ΔTop	Vin=3.7V, Iout=40mA, -40℃≦Top≦+85℃		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.0V, $\overline{CE}$="L"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.0V, Iout=40mA	2.940	3.000	3.060	V
Output current	Iout	Vin=4.0V, Lower by 0.1V than Vout	160	290		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		170	280	mV
Current consumption	Iss	Vin=4.0V		25	45	μA
Stand-by current consumption	Istandby	Vin=Vce=4.0V		0.005	0.100	μA
Input voltage	Vin				8	V
$\overline{CE}$ Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
$\overline{CE}$ Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
$\overline{CE}$ Input current High	Iceh	Vce=Vin		0.0	0.2	μA
$\overline{CE}$ Input current Low	Icel	Vce=Vss	-1.5	-0.4		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=4.0V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.3V, $\overline{CE}$="L"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.3V, Iout=40mA	3.234	3.300	3.366	V
Output current	Iout	Vin=4.3V, Lower by 0.1V than Vout	170	300		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.3V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.3V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		150	265	mV
Current consumption	Iss	Vin=4.3V		25	45	μA
Stand-by current consumption	Istandby	Vin=Vce=4.3V		0.005	0.100	μA
Input voltage	Vin				8	V
$\overline{CE}$ Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
$\overline{CE}$ Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
$\overline{CE}$ Input current High	Iceh	Vce=Vin		0.0	0.2	μA
$\overline{CE}$ Input current Low	Icel	Vce=Vss	-1.5	-0.4		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=4.3V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=5.0V, $\overline{CE}$="L"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=6.0V, Iout=40mA	4.900	5.000	5.100	V
Output current	Iout	Vin=6.0V, Lower by 0.1V than Vout	200	330		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 6.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=6.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		125	220	mV
Current consumption	Iss	Vin=6.0V		30	55	μA
Stand-by current consumption	Istandby	Vin=Vce=6.0V		0.005	0.100	μA
Input voltage	Vin				8	V
$\overline{CE}$ Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
$\overline{CE}$ Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
$\overline{CE}$ Input current High	Iceh	Vce=Vin		0.0	0.2	μA
$\overline{CE}$ Input current Low	Icel	Vce=Vss	-1.5	-0.4		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=6.0V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

■Electrical characteristics (ELM99xx3xx3BW)

Vout=2.7V, CE="H"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=3.7V, Iout=40mA	2.646	2.700	2.754	V
Output current	Iout	Vin=3.7V, Lower by 0.1V than Vout	150	260		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.7V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=3.7V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		190	320	mV
Current consumption	Iss	Vin=3.7V		25	45	μA
Stand-by current consumption	Istandby	Vin=3.7V, Vce=Vss		0.1	0.5	μA
Input voltage	Vin				8	V
CE Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
CE Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
CE Input current High	Iceh	Vce=Vin		0.4	1.5	μA
CE Input current Low	Icel	Vce=Vss	-0.2	0.0		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=3.7V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.0V, CE="H"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.0V, Iout=40mA	2.940	3.000	3.060	V
Output current	Iout	Vin=4.0V, Lower by 0.1V than Vout	160	290		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		170	280	mV
Current consumption	Iss	Vin=4.0V		25	45	μA
Stand-by current consumption	Istandby	Vin=4.0V, Vce=Vss		0.1	0.5	μA
Input voltage	Vin				8	V
CE Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
CE Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
CE Input current High	Iceh	Vce=Vin		0.4	1.5	μA
CE Input current Low	Icel	Vce=Vss	-0.2	0.0		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=4.0V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=3.3V, CE="H"active Top=25℃

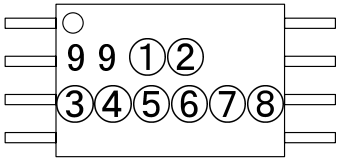
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=4.3V, Iout=40mA	3.234	3.300	3.366	V
Output current	Iout	Vin=4.3V, Lower by 0.1V than Vout	170	300		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 4.3V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=4.3V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		150	265	mV
Current consumption	Iss	Vin=4.3V		25	45	μA
Stand-by current consumption	Istandby	Vin=4.3V, Vce=Vss		0.1	0.5	μA
Input voltage	Vin				8	V
CE Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
CE Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
CE Input current High	Iceh	Vce=Vin		0.4	1.5	μA
CE Input current Low	Icel	Vce=Vss	-0.2	0.0		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=4.3V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

Vout=5.0V, CE="H"active Top=25℃

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=6.0V, Iout=40mA	4.900	5.000	5.100	V
Output current	Iout	Vin=6.0V, Lower by 0.1V than Vout	200	330		mA
Input stability	ΔVout/ΔVin	Iout=40mA, 6.0V≦Vin≦8.0V		0.15	0.30	%/V
Load stability	ΔVout/ΔIout	1mA≦Iout≦100mA, Vin=6.0V		5	15	mV
Input/output voltage differential	Vdif	Iout=40mA		125	220	mV
Current consumption	Iss	Vin=6.0V		30	55	μA
Stand-by current consumption	Istandby	Vin=6.0V, Vce=Vss		0.1	0.5	μA
Input voltage	Vin				8	V
CE Input voltage High	Vceh	Vin=8.0V	1.80		Vin	V
CE Input voltage Low	Vcel	Vin=2.0V	0.00		0.25	V
CE Input current High	Iceh	Vce=Vin		0.4	1.5	μA
CE Input current Low	Icel	Vce=Vss	-0.2	0.0		
Output voltage temperature coefficient	ΔVout/ΔTop	-40℃≦Top≦+85℃, Vin=6.0V, Iout=40mA		±100		ppm/℃
Short circuit current	Ilim	Vout=0V		70		mA

■Marking

TSSOP-8



No. ① : Assembly lot No.
A～Z (I, O, X excepted)

No. ② : Assembly lot No.
0～9

No. ③ : the integer digit of output voltage1

Mark	Vout	Mark	Vout
1	1.*V	4	4.*V
2	2.*V	5	5.*V
3	3.*V	6	6.*V

No. ④ : the decimal digit of output voltage1

Mark	Vout	Mark	Vout
0	*.0V	5	*.5V
1	*.1V	6	*.6V
2	*.2V	7	*.7V
3	*.3V	8	*.8V
4	*.4V	9	*.9V

No. ⑤ : Scheme of CE1
1 : No CE1, 2 : CE1="L"active, 3 : CE1="H"active

No. ⑥ : the integer digit of output voltage2

Mark	Vout	Mark	Vout
1	1.*V	4	4.*V
2	2.*V	5	5.*V
3	3.*V	6	6.*V

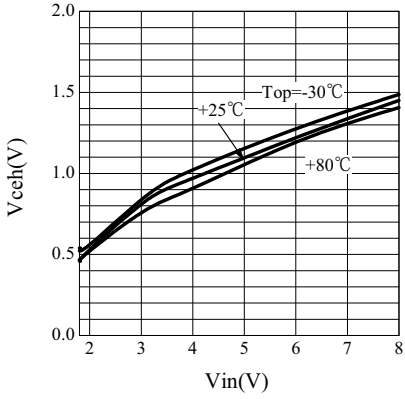
No. ⑦ : the decimal digit of output voltage2

Mark	Vout	Mark	Vout
0	*.0V	5	*.5V
1	*.1V	6	*.6V
2	*.2V	7	*.7V
3	*.3V	8	*.8V
4	*.4V	9	*.9V

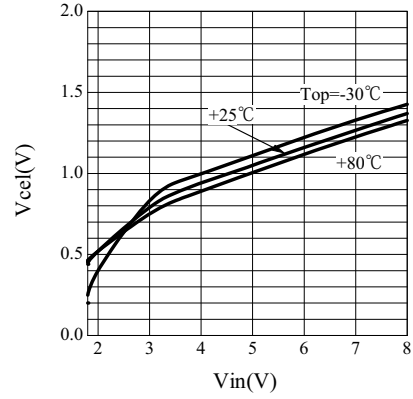
No. ⑧ : Scheme of CE2
1 : No CE2, 2 : CE2="L"active, 3 : CE2="H"active

■Typical characteristics

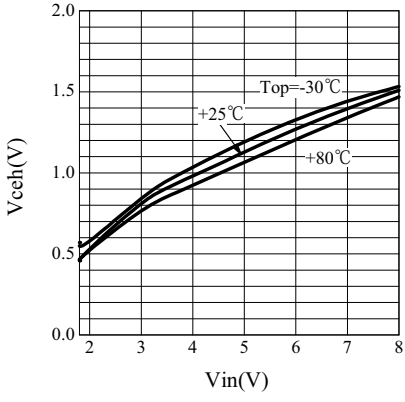
Low Active Unit Vceh - Vin



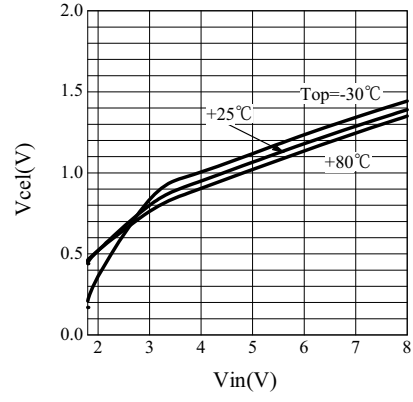
Low Active Unit Vcel - Vin



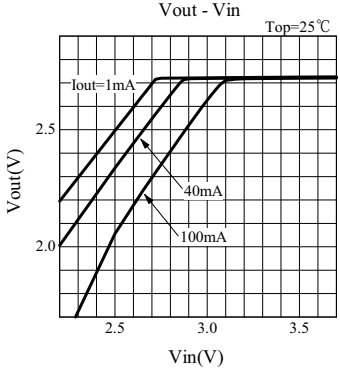
High Active Unit Vceh - Vin

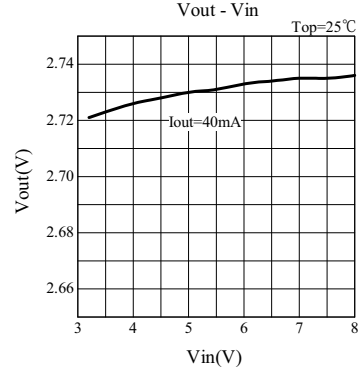


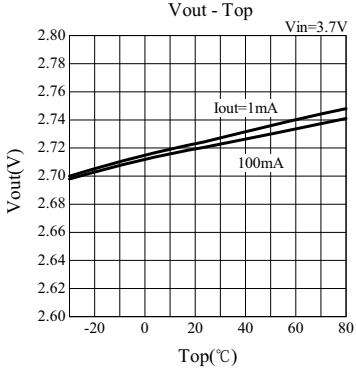
High Active Unit Vcel - Vin

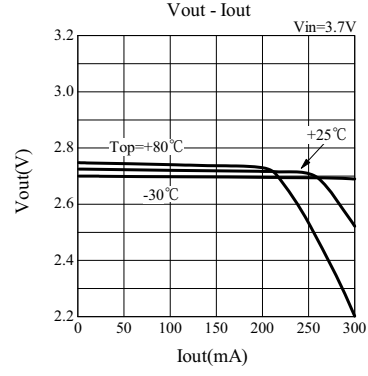


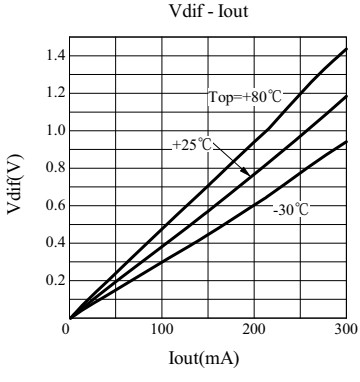
・2.7V Vout unit

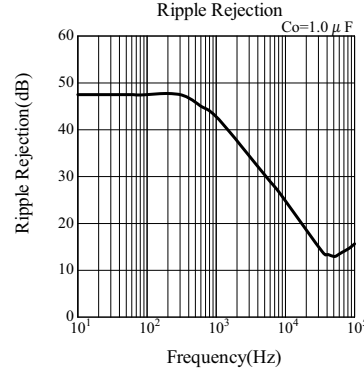


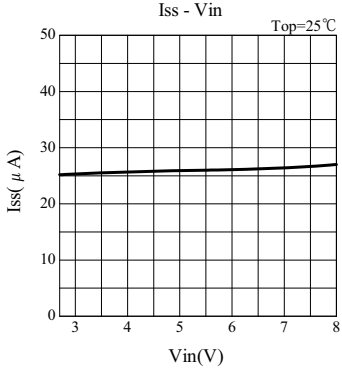


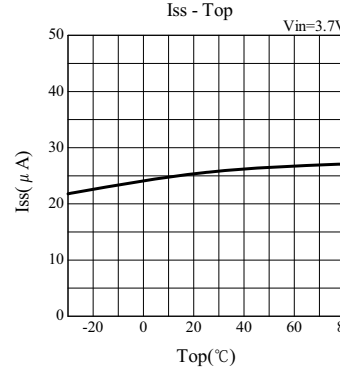


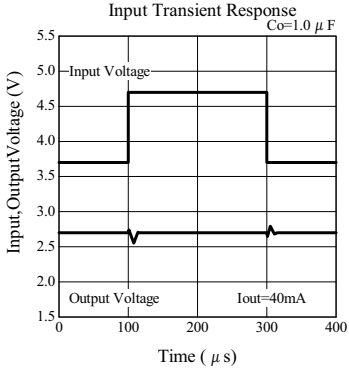


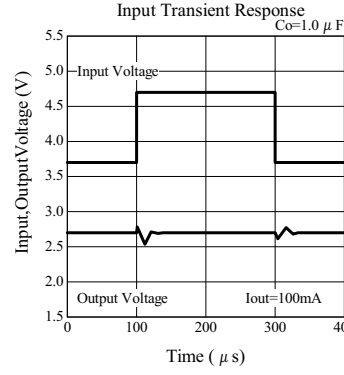


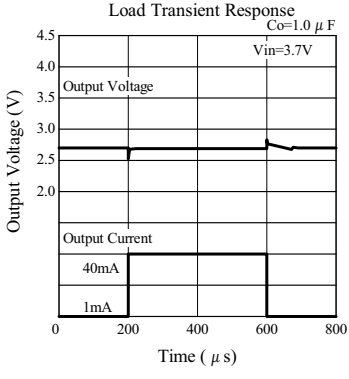


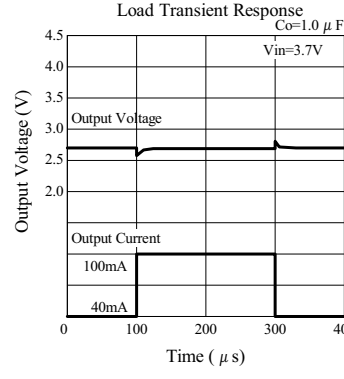

Iss - Vin
Top=25℃
Iss(μA)
Vin(V)


Iss - Top
Vin=3.7V
Iss(μA)
Top(℃)

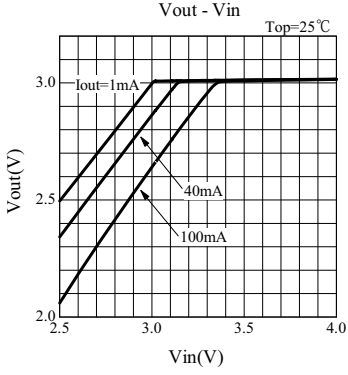

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=40mA
Input,OutputVoltage (V)
Time (μs)

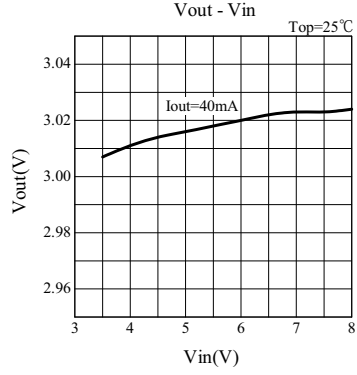

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=100mA
Input,OutputVoltage (V)
Time (μs)

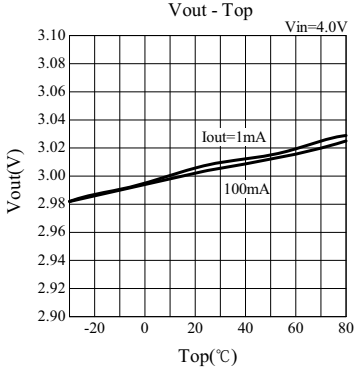

Load Transient Response
Co=1.0μF
Vin=3.7V
Output Voltage
Output Current
40mA
1mA
Output Voltage (V)
Time (μs)

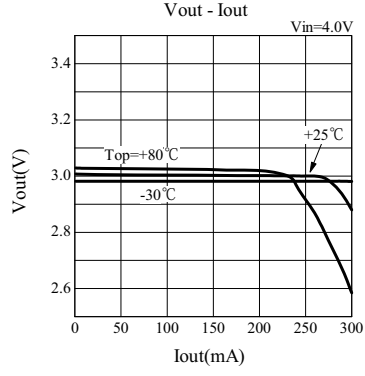

Load Transient Response
Co=1.0μF
Vin=3.7V
Output Voltage
Output Current
100mA
40mA
Output Voltage (V)
Time (μs)

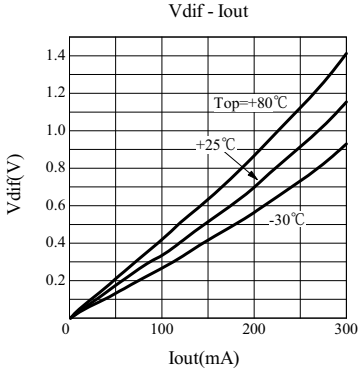
・3.0V Vout unit

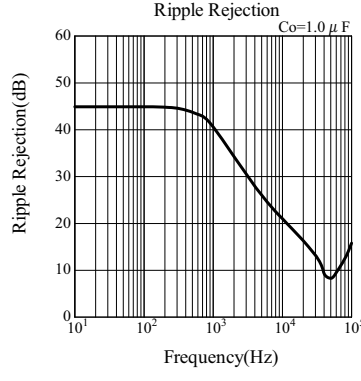


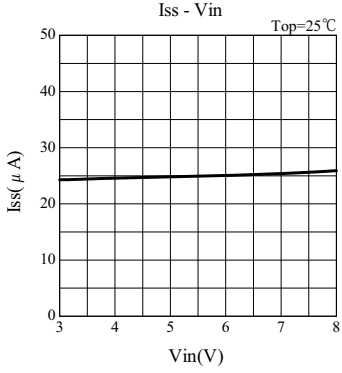


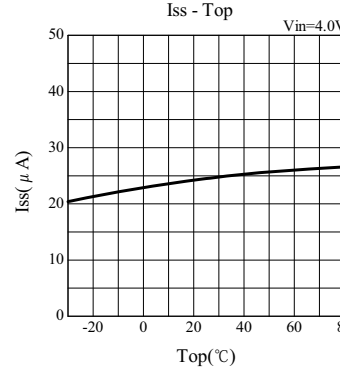


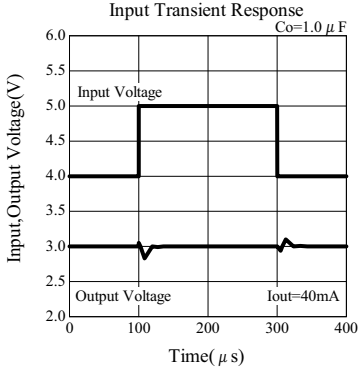


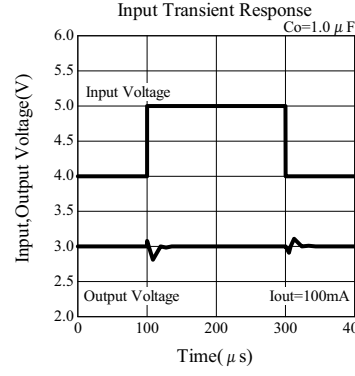


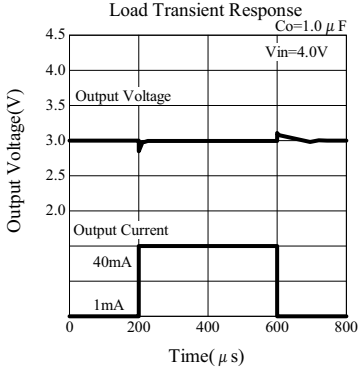


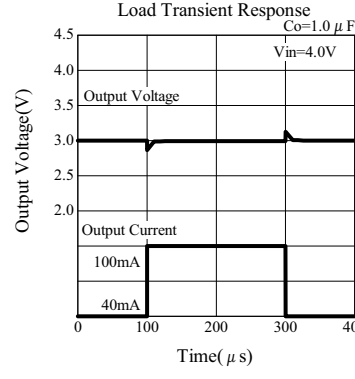

Iss - Vin
Top=25℃
Iss(μA)
Vin(V)


Iss - Top
Vin=4.0V
Iss(μA)
Top(℃)

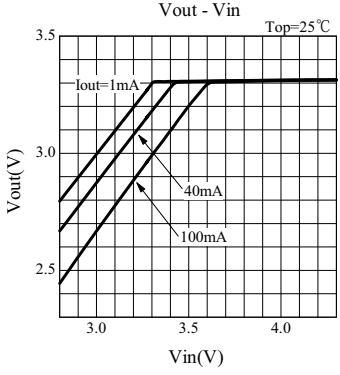

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=40mA
Input,Output Voltage(V)
Time(μs)

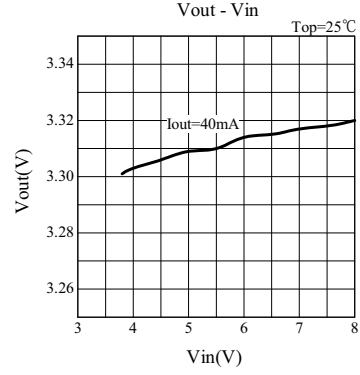

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=100mA
Input,Output Voltage(V)
Time(μs)

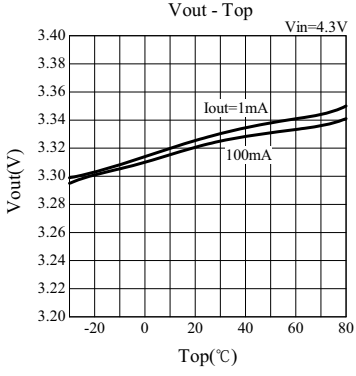

Load Transient Response
Co=1.0μF
Vin=4.0V
Output Voltage
Output Current
40mA
1mA
Output Voltage(V)
Time(μs)

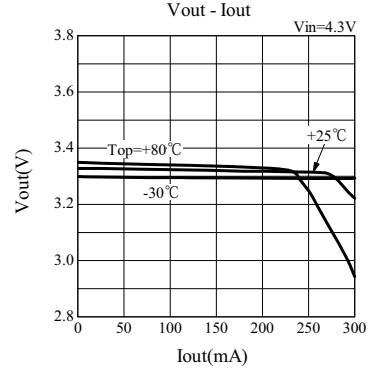

Load Transient Response
Co=1.0μF
Vin=4.0V
Output Voltage
Output Current
100mA
40mA
Output Voltage(V)
Time(μs)

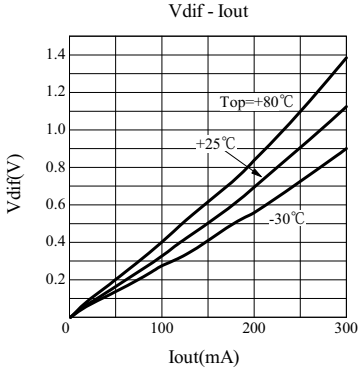
・3.3V Vout unit

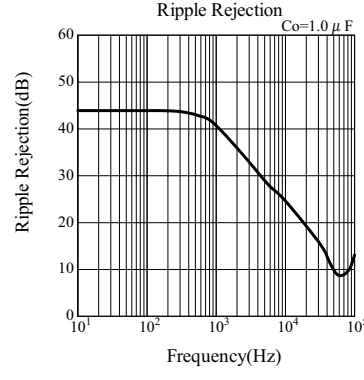


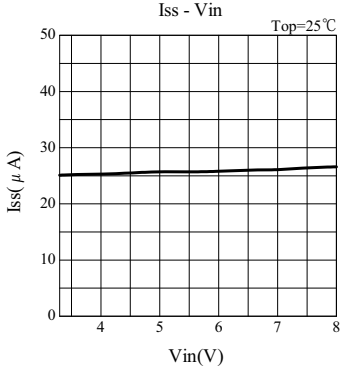


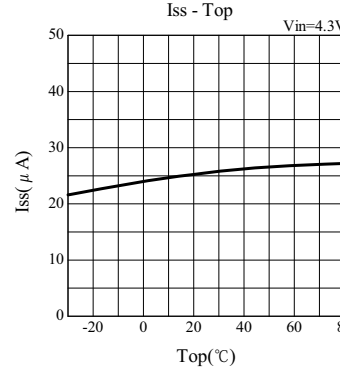


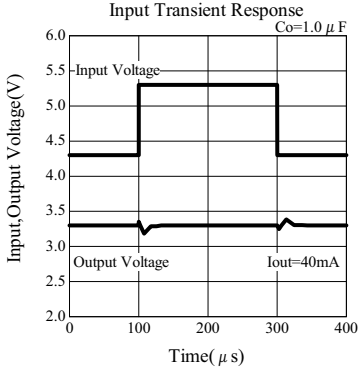


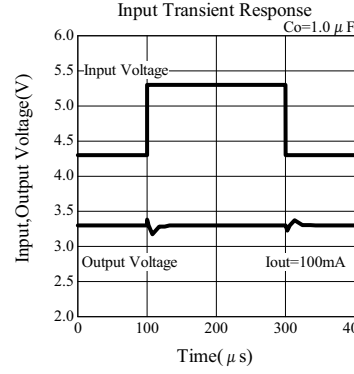


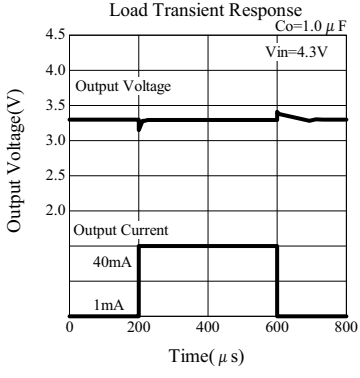


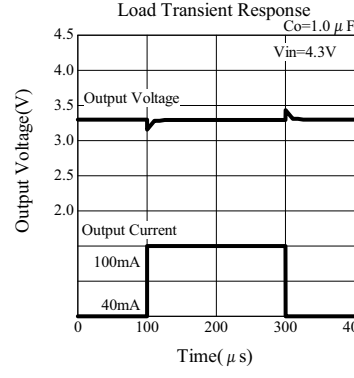

Iss - Vin
Top=25℃
Iss(μA)
Vin(V)


Iss - Top
Vin=4.3V
Iss(μA)
Top(℃)

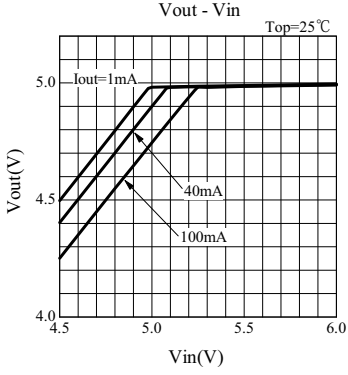

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=40mA
Input,Output Voltage(V)
Time(μs)

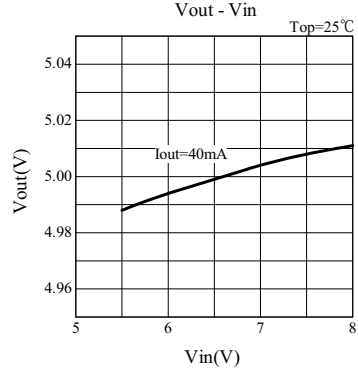

Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=100mA
Input,Output Voltage(V)
Time(μs)

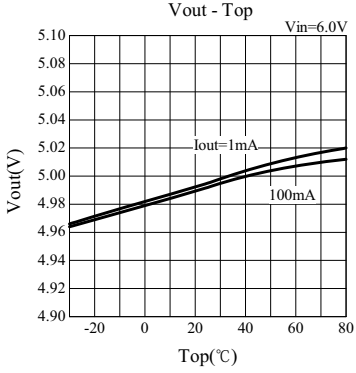

Load Transient Response
Co=1.0μF
Vin=4.3V
Output Voltage
Output Current
40mA
1mA
Output Voltage(V)
Time(μs)

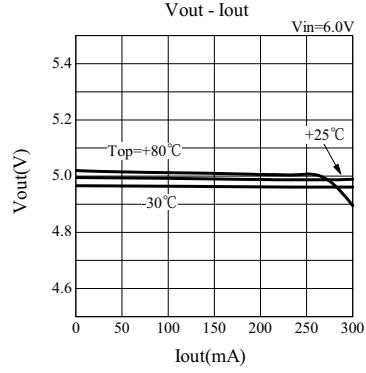

Load Transient Response
Co=1.0μF
Vin=4.3V
Output Voltage
Output Current
100mA
40mA
Output Voltage(V)
Time(μs)

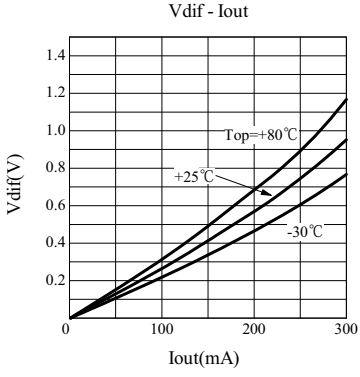
・5.0V Vout unit

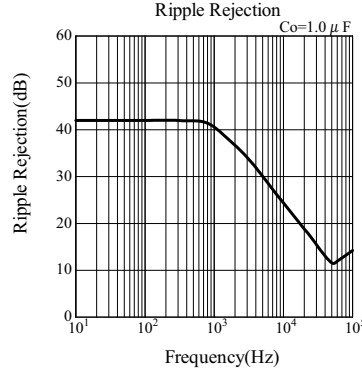


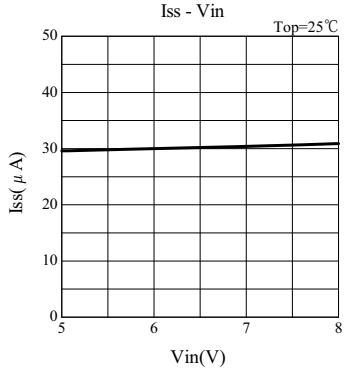


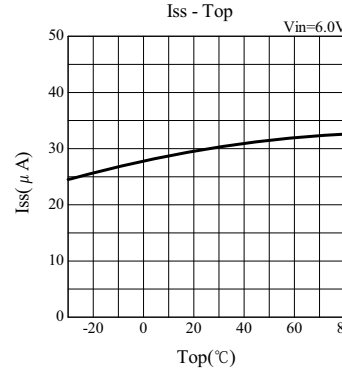


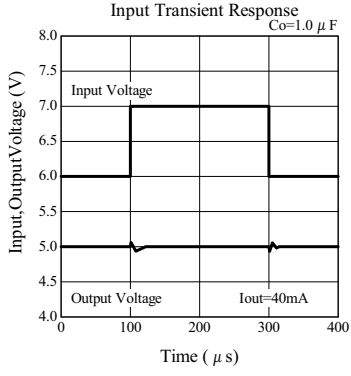


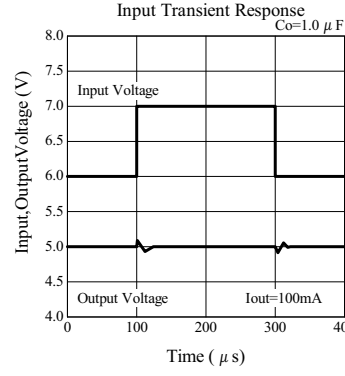


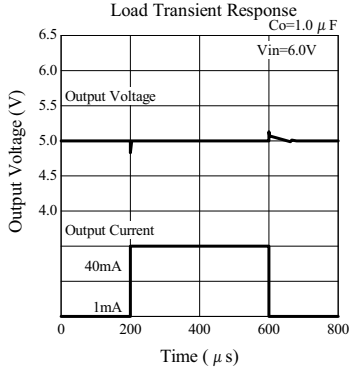


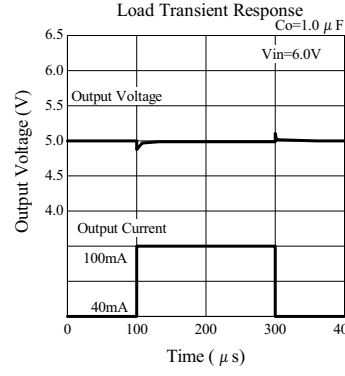

Iss - Vin
Top=25℃
Iss(μA)
Vin(V)
50
40
30
20
10
0
5
6
7
8


Iss - Top
Vin=6.0V
Iss(μA)
Top(℃)
50
40
30
20
10
0
-20
0
20
40
60
80


Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=40mA
Input,OutputVoltage (V)
Time (μs)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
0
100
200
300
400


Input Transient Response
Co=1.0μF
Input Voltage
Output Voltage
Iout=100mA
Input,OutputVoltage (V)
Time (μs)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
0
100
200
300
400


Load Transient Response
Co=1.0μF
Vin=6.0V
Output Voltage
Output Current
40mA
1mA
Output Voltage (V)
Time (μs)
6.5
6.0
5.5
5.0
4.5
4.0
0
200
400
600
800


Load Transient Response
Co=1.0μF
Vin=6.0V
Output Voltage
Output Current
100mA
40mA
Output Voltage (V)
Time (μs)
6.5
6.0
5.5
5.0
4.5
4.0
0
100
200
300
400