

ELM88xxxxA CMOS 300mA LDO Voltage regulator

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■General description

ELM88xxxxA is high current and low dropout(LDO) CMOS fixed voltage regulator. There are 2 types of CE selection for ELM88 series: non-chip enable function and “H”active. Thermal shutdown protective function and short circuit current limiter are included in the IC. The standard output voltages are 1.2V, 1.8V, 2.5V, 3.0V, 3.3V, 5.0V; ELM88 series can also be designed as semi-custom IC within the range of 0.8V to 5.0V by 0.1V step.

■Features

- Output voltage range : 0.8V to 5.0V (by 0.1V)
- Output current : Min.300mA
- Stand by current consumption : Typ.0.1μA
- Input stability : Typ.0.02%/V(Iout=40mA)
- Load stability : Typ.5mV(1mA≤Iout≤100mA)
- Accuracy of output voltage : ±2.0%(Vout>1.5V), ±30mV(Vout≤1.5V)
- Input-output voltage difference : Typ.350mV(Vout=3.0V, Iout=300mA)
- Short circuit current limiter : Typ.40mA(Vout=0V)
- Thermal shutdown protection : Typ.165°C
- Chip enable pin : “H”active(ELM88xx3xA)
- Package : SOT-89, SOT-89-5, SOT-23, SOT-25, SC-70-5(SOT-353)

■Application

- Battery operated devices
- Camera and Video recorders
- Reference voltage source
- Portable electronics

■Maximum absolute ratings

Parameter	Symbol	Limit		Unit
Input voltage	Vin	Vss-0.3 to 7.0		V
CE Input voltage	Vce	Vss-0.3 to Vin+0.3		V
Output voltage	Vout	Vss-0.3 to Vin+0.3		V
Output current	Iout	600		mA
Power dissipation (Ta=25°C)	Pd	SOT-89	500 ^(*1)	mW
			1000 ^(*2)	
		SOT-89-5	500 ^(*1)	
			1000 ^(*2)	
		SOT-23	250 ^(*1)	
			500 ^(*2)	
		SOT-25	250 ^(*1)	
			600 ^(*2)	
		SC-70-5 (SOT-353)	150 ^(*1)	
			400 ^(*2)	
Operationg Temperature	Top	-40 to +85		°C
Storage Temperature	Tstg	-55 to +125		°C

* 1. No mounted, IC alone.

* 2. When mounted on glass epoxy 2-layers PCB (EIJ/JEDEC standard size: 76.2 mm×114.3 mm×1.6 mm), Cu thickness 35 μm, copper foil area ratio 20% on the front side, back side 100% .

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■Selection guide

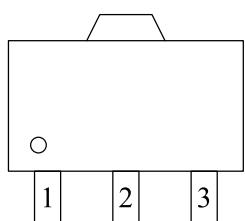
ELM88xxxxA-x

Symbol		
a, b	Output voltage	e.g. : 12: Vout=1.2V 18: Vout=1.8V 25: Vout=2.5V 30: Vout=3.0V 33: Vout=3.3V 50: Vout=5.0V
c	CE selection	1: No CE 3: CE="H"active
d	Package	A: SOT-89, SOT-89-5 B: SOT-23, SOT-25 C: SC-70-5(SOT-353)
e	Product version	A
f	Taping direction	S: Refer to PKG file N: Refer to PKG file

ELM88 x x x x A - x
↑ ↑ ↑ ↑ ↑ ↑
a b c d e f

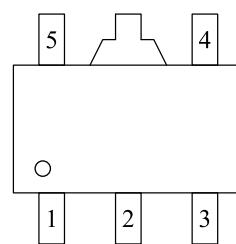
■Pin configuration

SOT-89(TOP VIEW)



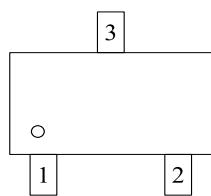
ELM88xx1AA	
Pin No.	Pin name
1	VSS
2	VIN
3	VOUT

SOT-89-5(TOP VIEW)



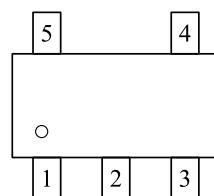
Pin No.	Pin name
1	VSS
2	VIN
3	VOUT
4	NC
5	CE

SOT-23(TOP VIEW)



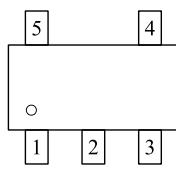
ELM88xx1BA	
Pin No.	Pin name
1	VSS
2	VOUT
3	VIN

SOT-25(TOP VIEW)



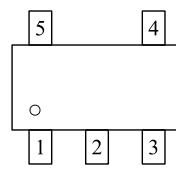
Pin No.	Pin name
1	VSS
2	VIN
3	VOUT
4	NC
5	CE

SC-70-5(TOP VIEW)



Pin No.	Pin name
1	NC
2	VIN
3	NC
4	VSS
5	VOUT

SC-70-5(TOP VIEW)

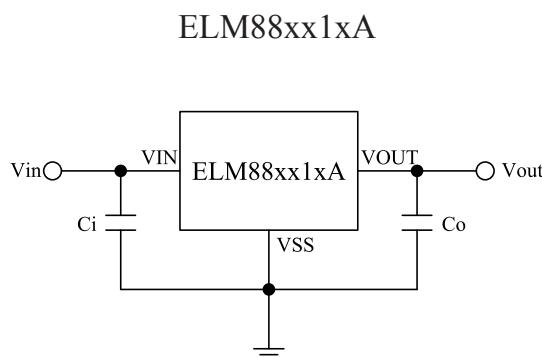


Pin No.	Pin name
1	VSS
2	VIN
3	VOUT
4	NC
5	CE

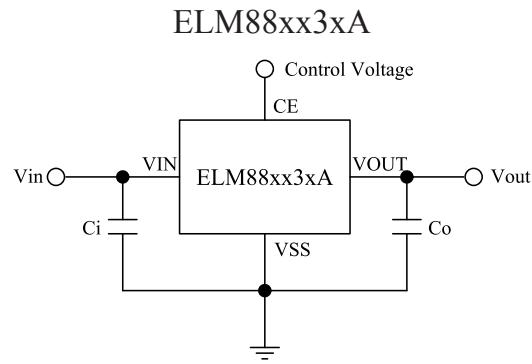
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■Standard circuit

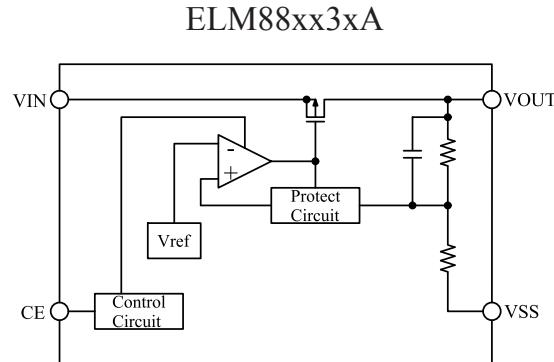
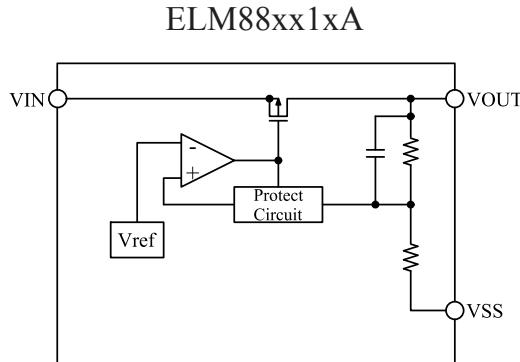


* Ci=1μF, Co=1μF or greater



* Ci=1μF, Co=1μF or greater

■Block diagram



■Electrical characteristics (ELM88xx1xA)

Vout=1.2V(ELM88121xA), No CE pin

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=2.2V, Iout=40mA	1.170	1.200	1.230	V
Output current	Iout	Vin=3.0V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 1.7V≤Vin≤6.0V	0.05	0.20	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=2.2V	5	20	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		380	620	mV
Current consumption	Iss	Vin=2.2V, No-load	15	50	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=2.2V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temperature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

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Vout=1.8V(ELM88181xA), No CE pin

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=2.8V, Iout=40mA	1.764	1.800	1.836	V
Output current	Iout	Vin=3.0V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 2.3V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=2.8V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		145	230	mV
Current consumption	Iss	Vin=2.8V, No-load		15	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=2.8V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=2.5V(ELM88251xA), No CE pin

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=3.5V, Iout=40mA	2.450	2.500	2.550	V
Output current	Iout	Vin=3.5V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.0V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=3.5V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		120	190	mV
Current consumption	Iss	Vin=3.5V, No-load		15	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=3.5V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=3.0V(ELM88301xA), No CE pin

Top=25°C

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	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.5V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=4.0V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		110	175	mV
Current consumption	Iss	Vin=4.0V, No-load		15	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=4.0V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

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Vout=3.3V(ELM88331xA), No CE pin

Top=25°C

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	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.8V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=4.3V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		110	175	mV
Current consumption	Iss	Vin=4.3V, No-load		15	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=4.3V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=5.0V(ELM88501xA), No CE pin

Top=25°C

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	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 5.5V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=6.0V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		100	160	mV
Current consumption	Iss	Vin=6.0V, No-load		15	50	μA
Input voltage	Vin		1.4		6.0	V
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=6.0V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

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■Electrical characteristics (ELM88xx3xA)

Vout=1.2V(ELM88123xA), CE="H"active

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=2.2V, Iout=40mA	1.170	1.200	1.230	V
Output current	Iout	Vin=3.0V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 1.7V≤Vin≤6.0V		0.05	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=2.2V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		380	620	mV
Current consumption	Iss	Vin=2.2V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=2.2V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	μA
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C Iout=40mA, Vin=2.2V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=1.8V(ELM88183xA), CE="H"active

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=2.8V, Iout=40mA	1.764	1.800	1.836	V
Output current	Iout	Vin=3.0V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 2.3V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=2.8V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		145	230	mV
Current consumption	Iss	Vin=2.8V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=2.8V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	μA
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C Iout=40mA, Vin=2.8V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

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Vout=2.5V(ELM88253xA), CE="H"active

Top=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=3.5V, Iout=40mA	2.450	2.500	2.550	V
Output current	Iout	Vin=3.5V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.0V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=3.5V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		120	190	mV
Current consumption	Iss	Vin=3.5V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=3.5V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	μA
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C Iout=40mA, Vin=3.5V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=3.0V(ELM88303xA), CE="H"active

Top=25°C

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	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.5V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=4.0V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		110	175	mV
Current consumption	Iss	Vin=4.0V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=4.0V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	μA
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=4.0V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

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Vout=3.3V(ELM88333xA), CE="H"active

Top=25°C

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	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 3.8V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=4.3V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		110	175	mV
Current consumption	Iss	Vin=4.3V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=4.3V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	μA
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=4.3V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

Vout=5.0V(ELM88503xA), CE="H"active

Top=25°C

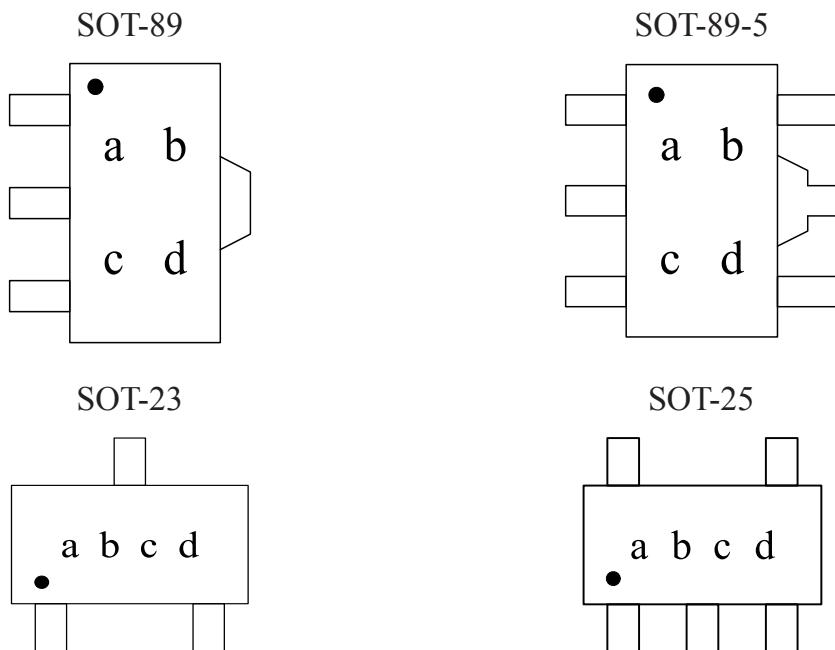
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Output voltage	Vout	Vin=6.0V, Iout=40mA	4.900	5.000	5.100	V
Output current	Iout	Vin=6.0V	300			mA
Input stability	ΔVout/ΔVin	Iout=40mA, 5.5V≤Vin≤6.0V		0.02	0.20	%/V
Load stability	ΔVout/ΔIout	1mA≤Iout≤100mA, Vin=6.0V		5	20	mV
Input-Output voltage differential	Vdif	Iout=100mA		100	160	mV
Current consumption	Iss	Vin=6.0V, No-load		15	50	μA
Stand-by current consumption	Istandby	Vin=6.0V, Vce=0			0.5	μA
Input voltage	Vin		1.4		6.0	V
CE input voltage High	Vceh	Vin=6.0V	1.8		Vin	V
CE input voltage Low	Vcel	Vin=1.4V	0.0		0.2	V
CE input current High	Iceh	Vce=Vin=6.0V	-0.2	0.0	0.2	μA
CE input current Low	Icel	Vce=Vss, Vin=6.0V	-0.2	0.0	0.2	
Output voltage temperature coefficient	ΔVout/ΔTop	-40°C≤Top≤+85°C, Iout=40mA, Vin=6.0V		±100		ppm/°C
Short circuit current	Ilim	Vout=0V		40		mA
Ripple rejection ratio	RR	f=1kHz, Iout=40mA		60		dB
Thermal shutdown temparature	Tsd			165		°C
Output noise	Vno	BW=10Hz to 100kHz		30		μVrms

ELM88xxxxA CMOS 300mA LDO Voltage regulator

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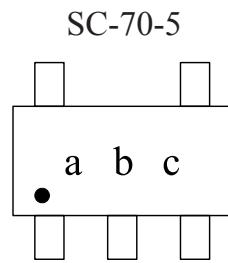
■Marking

- SOT-89, SOT-23 package : ELM88xx1xA
- SOT-89-5, SOT-25 package : ELM88xx3xA(with CE)



a to d : Assembly lot No. —
A to Z (I, O, X excepted) and 0 to 9

- SC-70-5 package : ELM88xxxCA



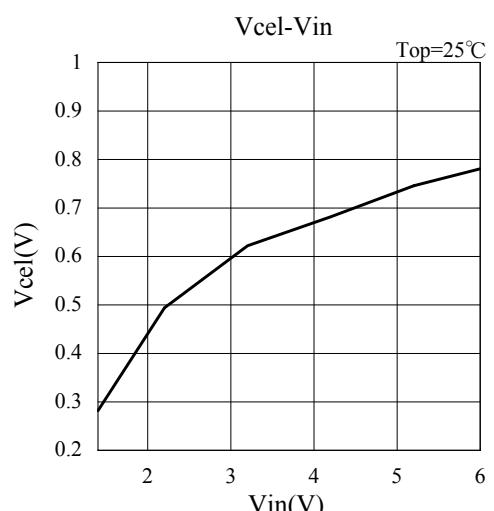
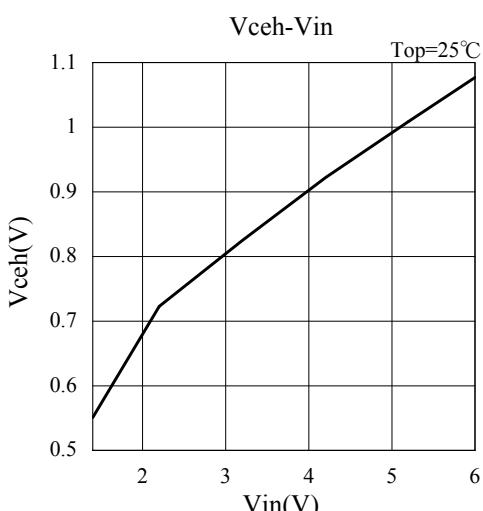
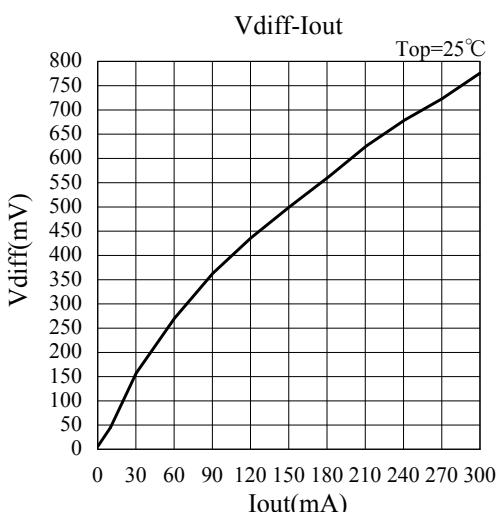
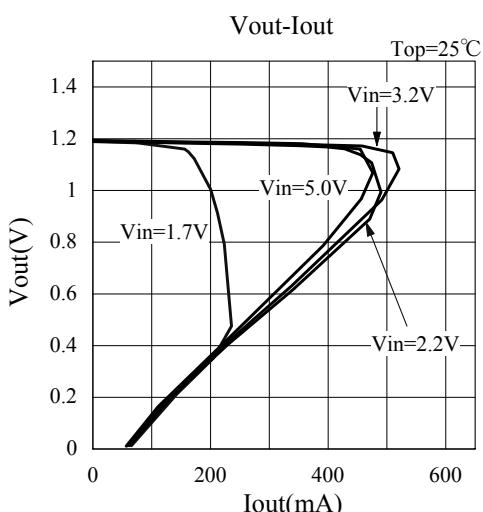
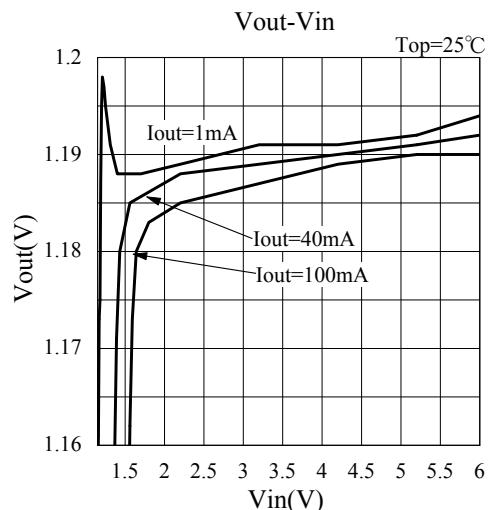
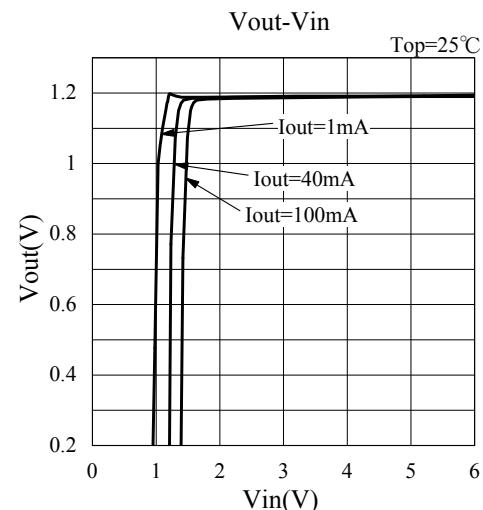
a to c : Assembly lot No. —
A to Z (I, O, X excepted) and 0 to 9

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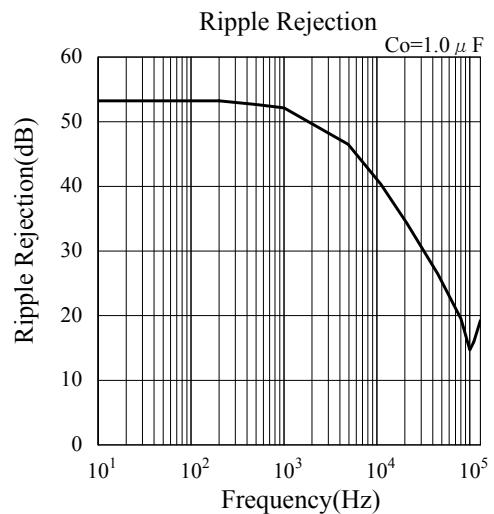
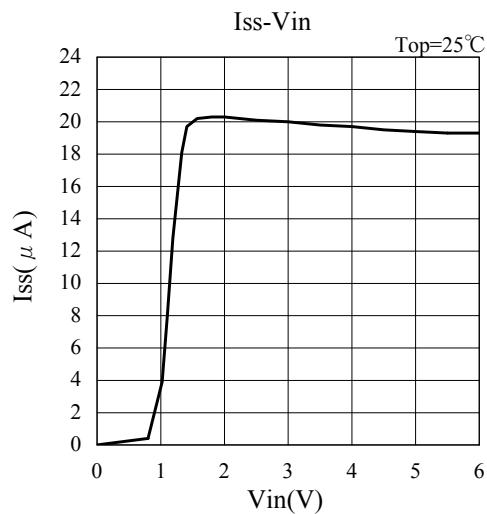
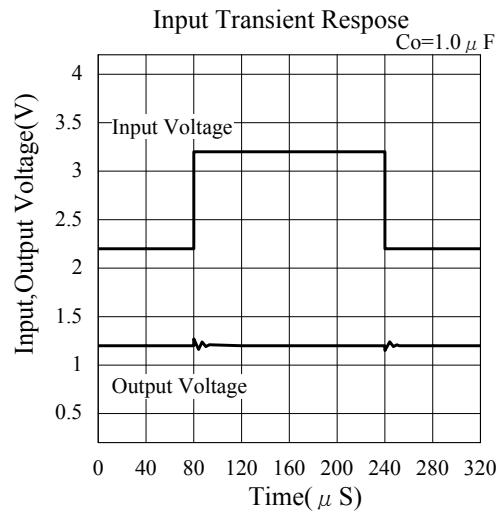
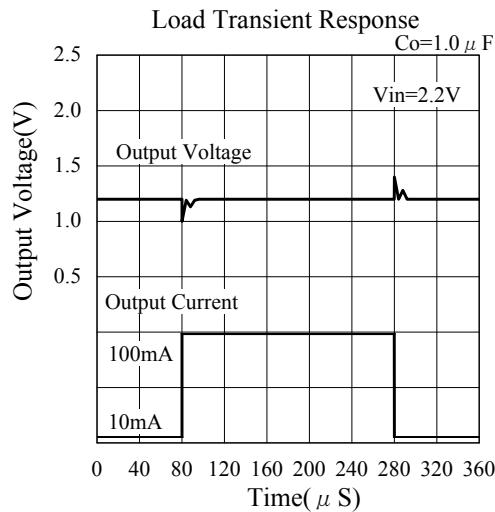
■Typical characteristics

- 1.2V Vout unit (ELM8812xxA)



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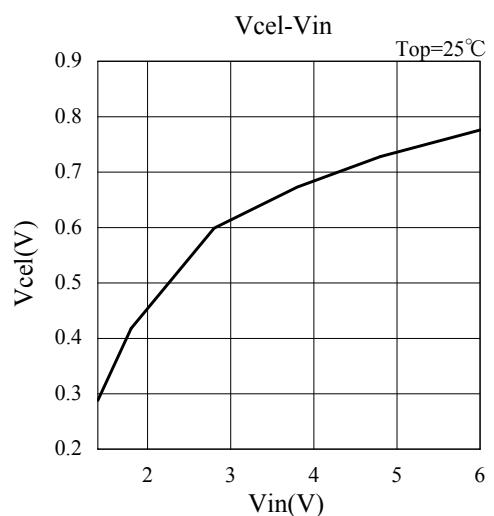
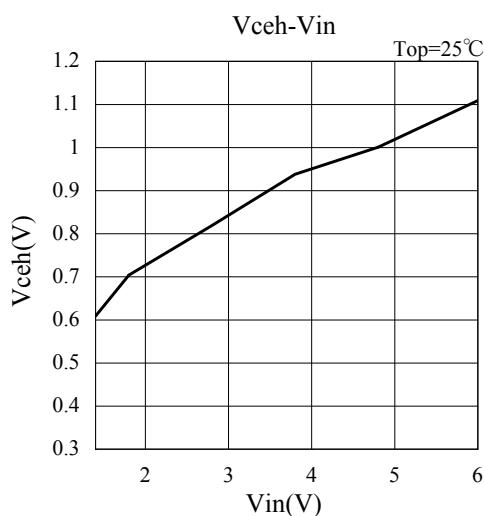
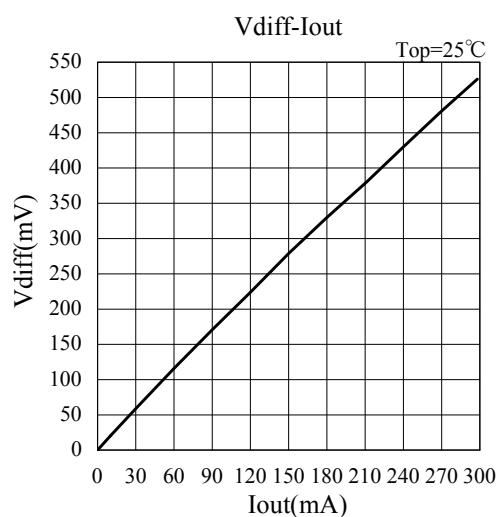
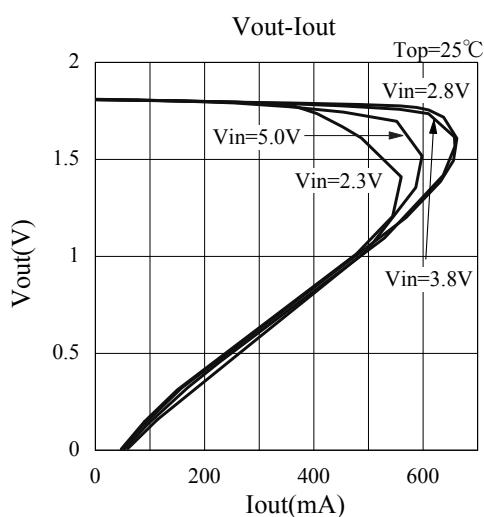
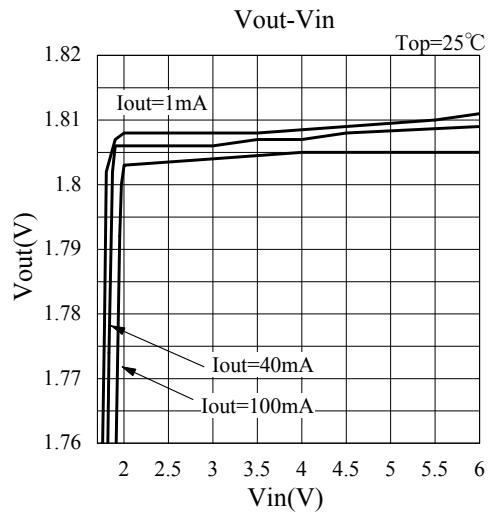
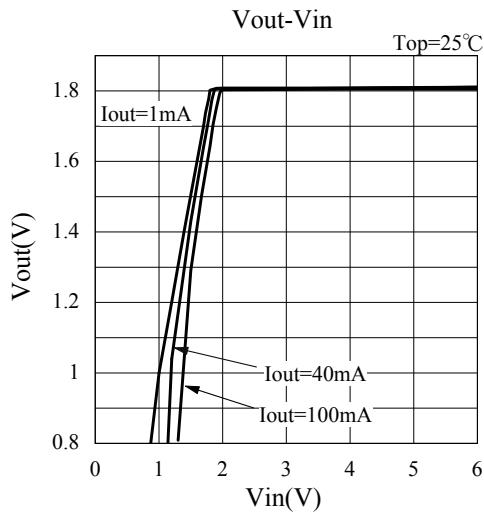
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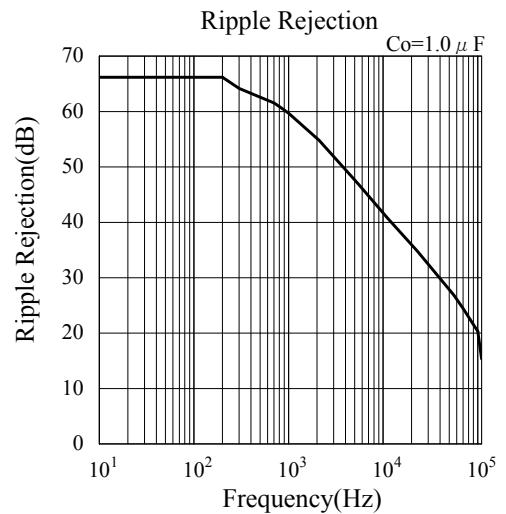
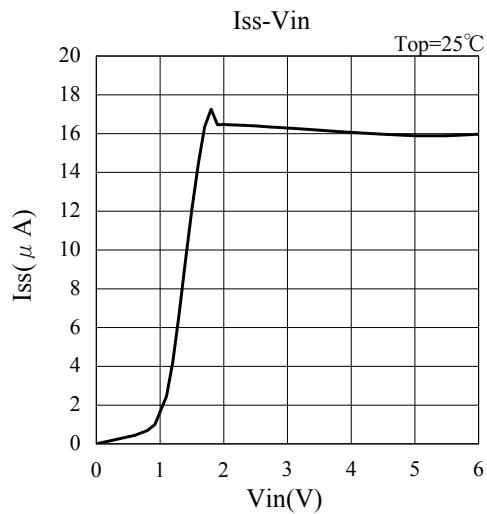
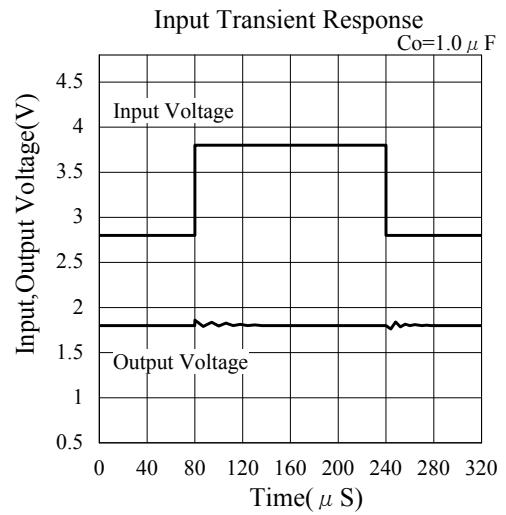
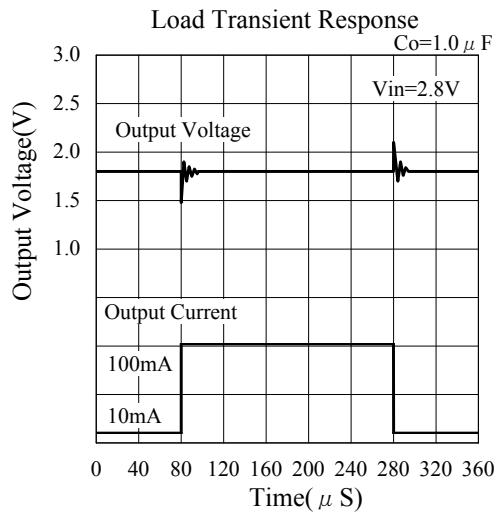
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- 1.8V Vout unit (ELM8818xxA)



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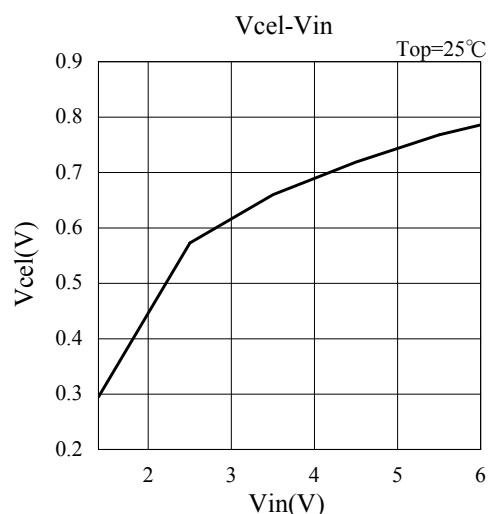
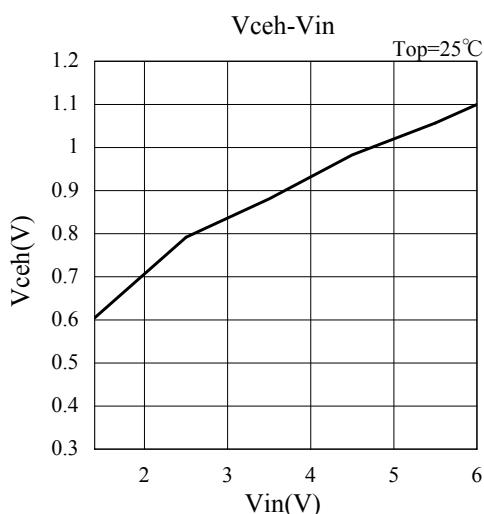
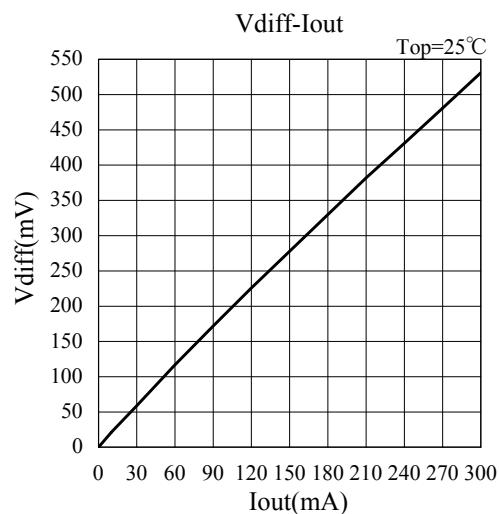
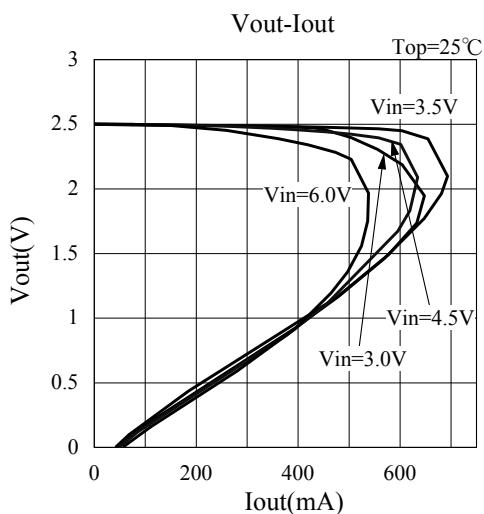
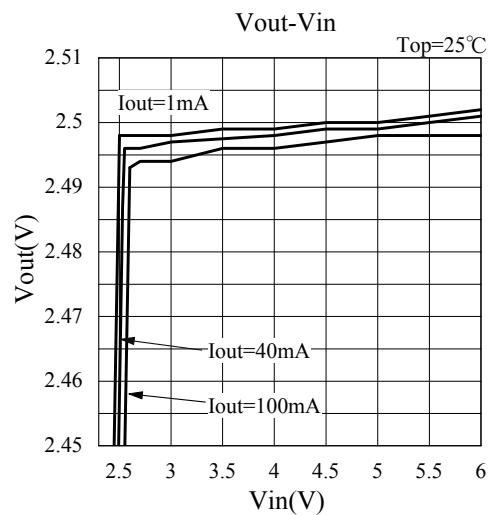
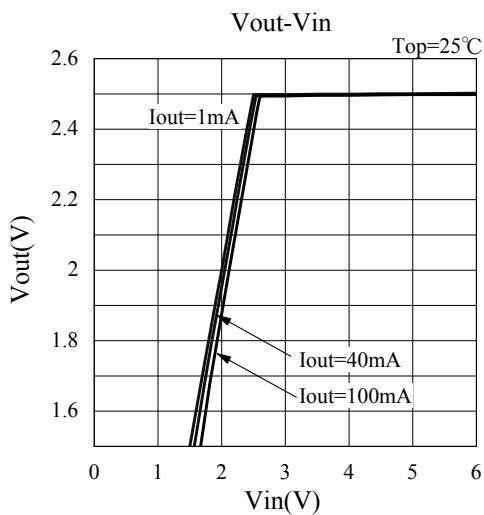
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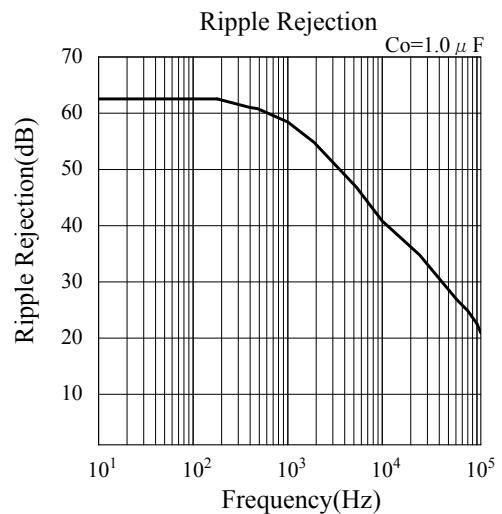
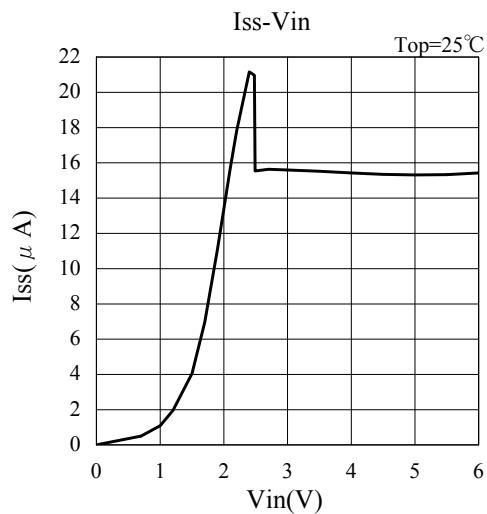
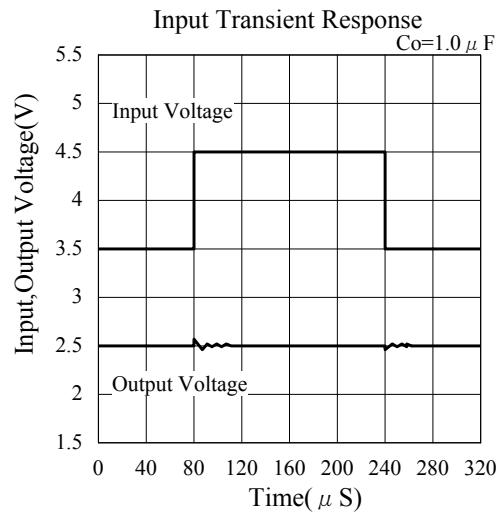
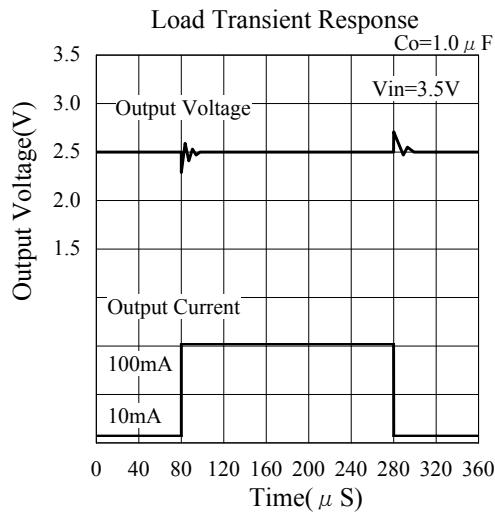
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- 2.5V Vout unit (ELM8825xxA)



ELM88xxxxA CMOS 300mA LDO Voltage regulator

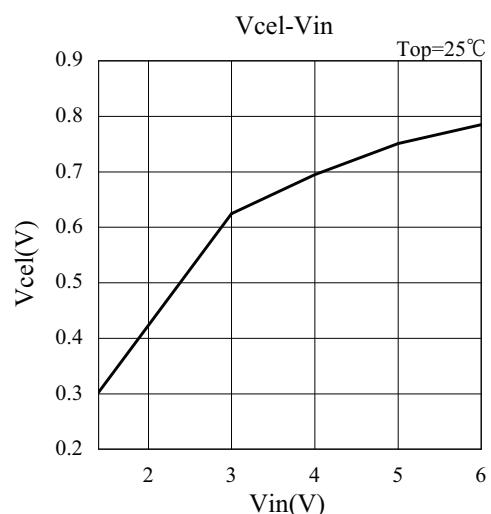
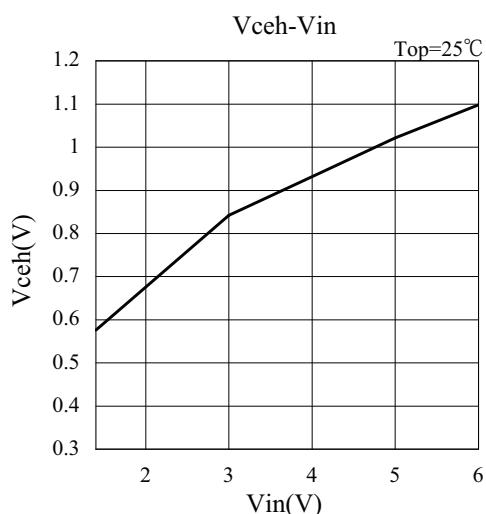
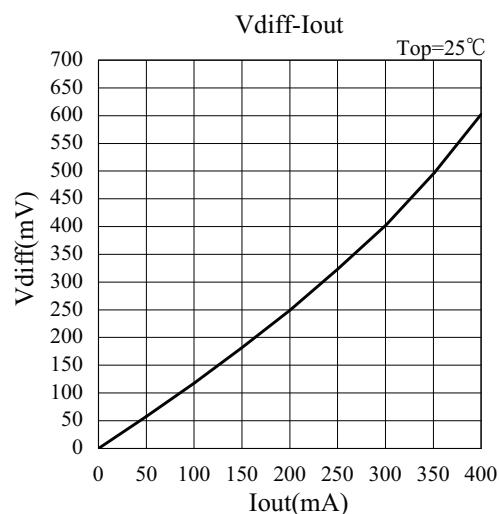
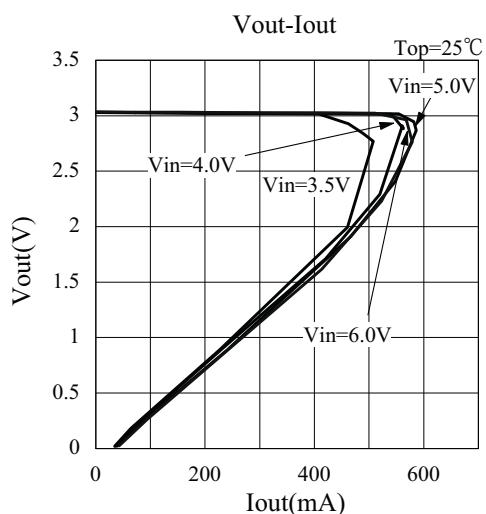
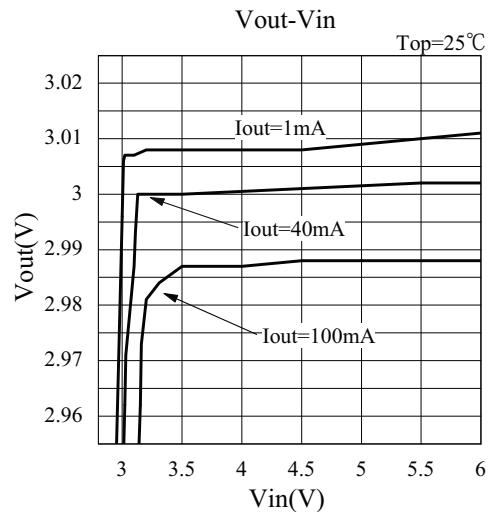
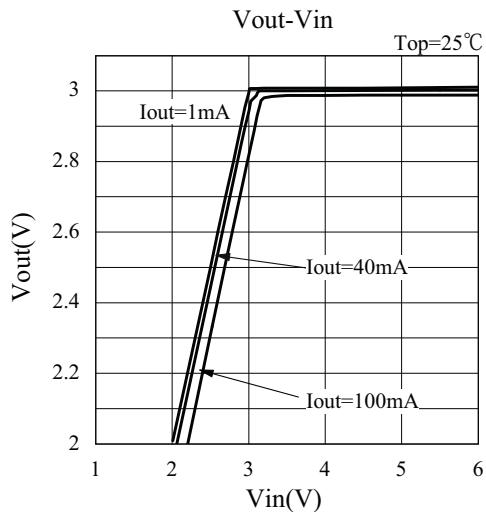
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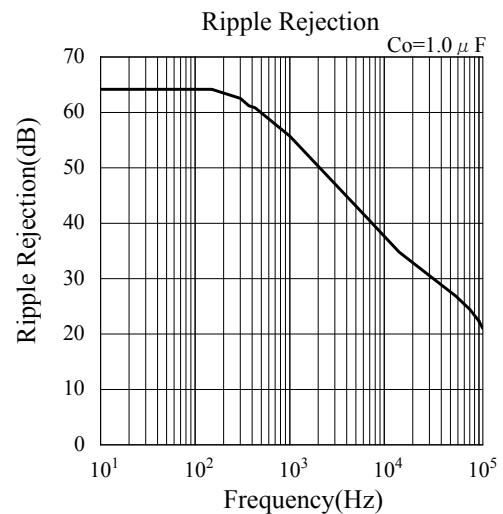
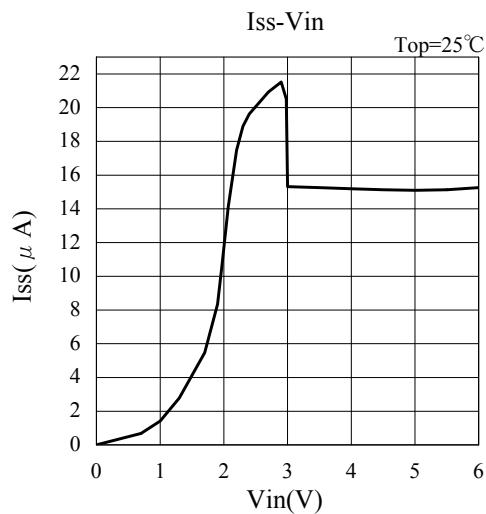
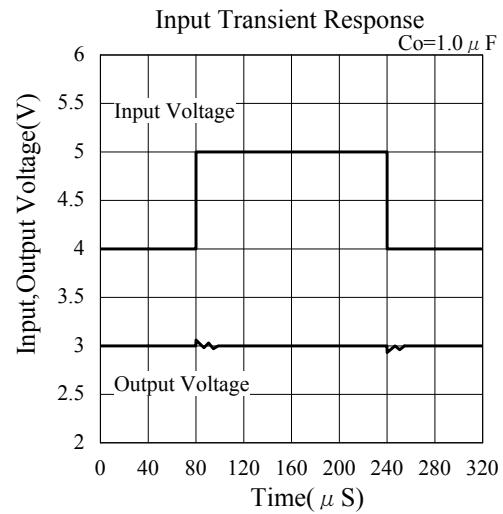
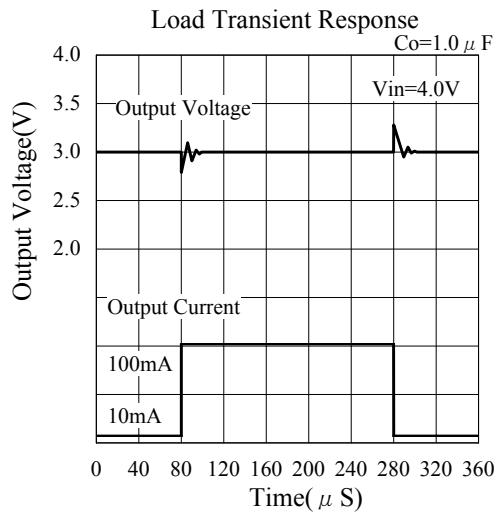
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- 3.0V Vout unit (ELM8830xxA)



ELM88xxxxA CMOS 300mA LDO Voltage regulator

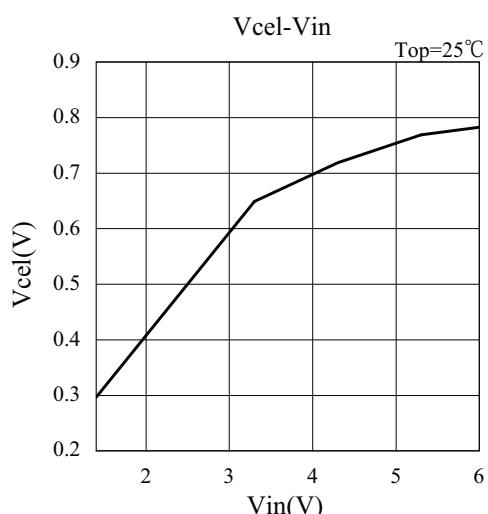
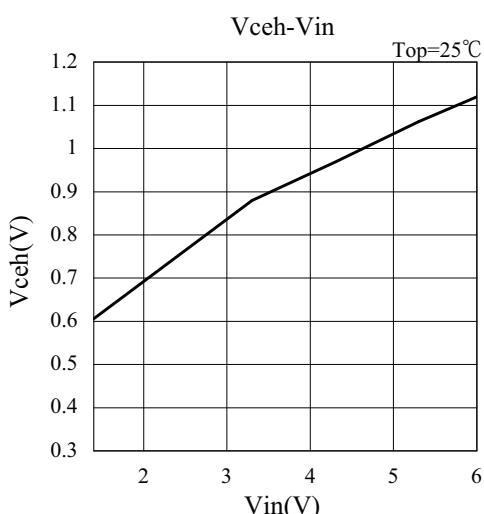
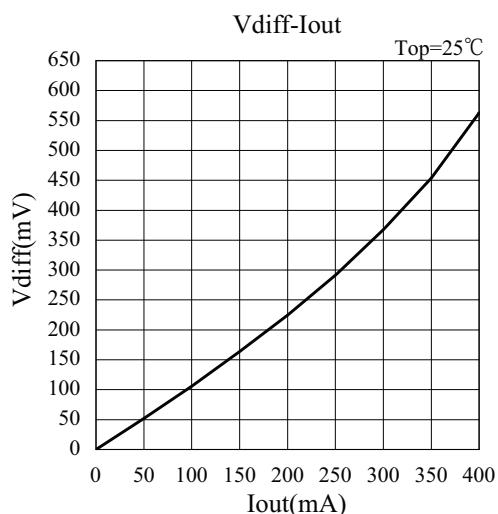
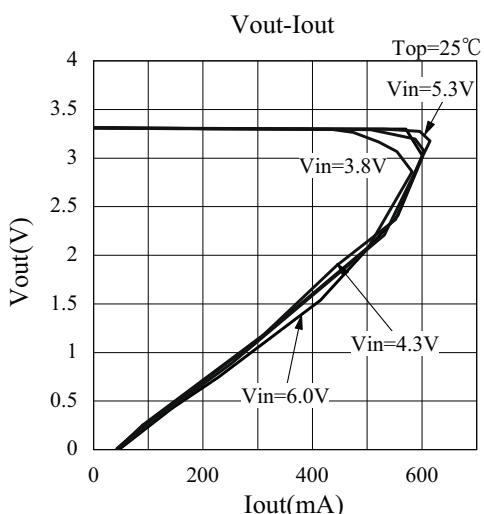
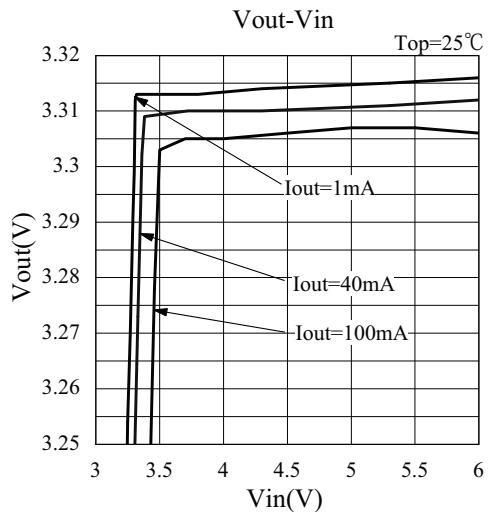
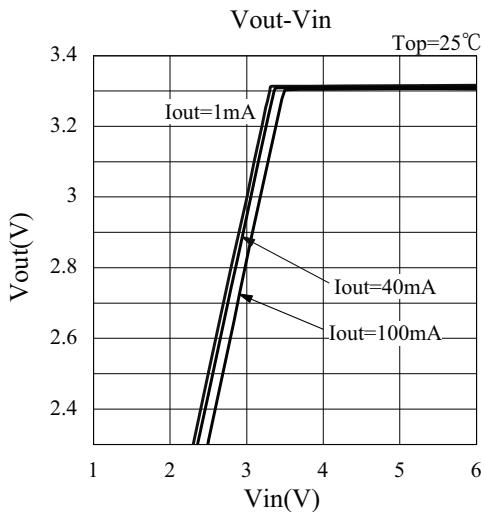
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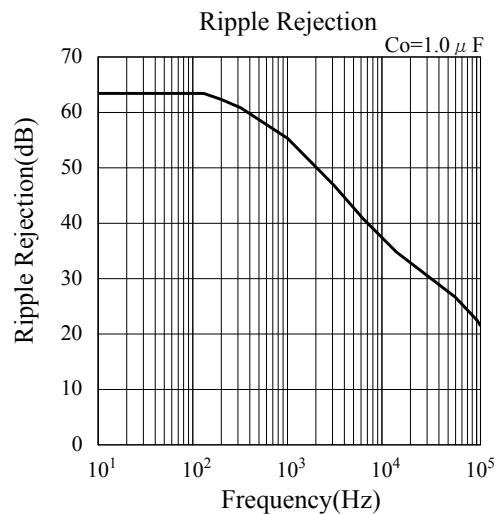
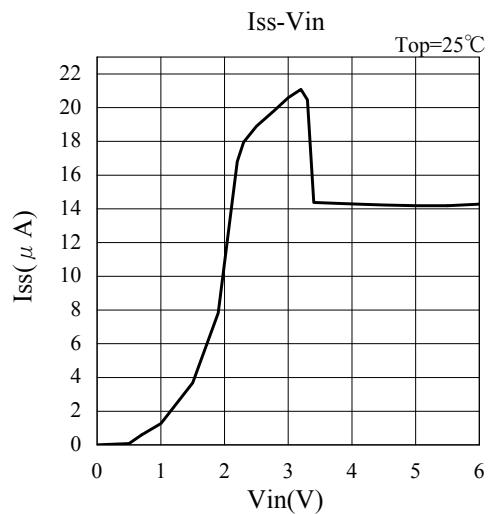
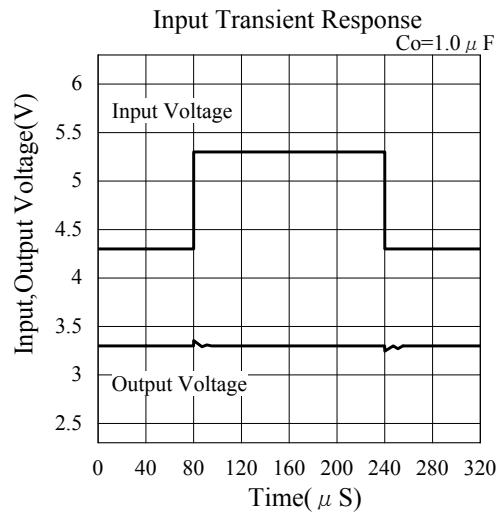
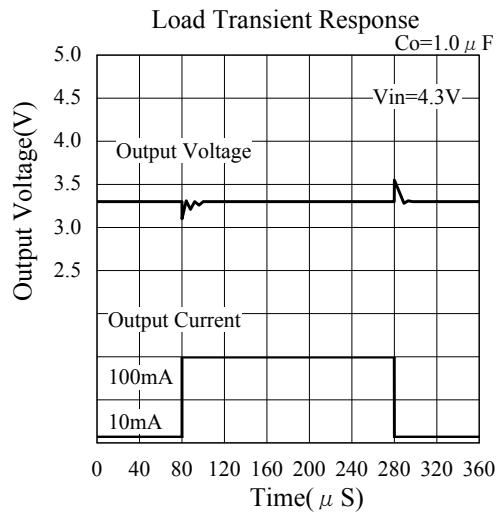
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- 3.3V Vout unit (ELM8833xxA)



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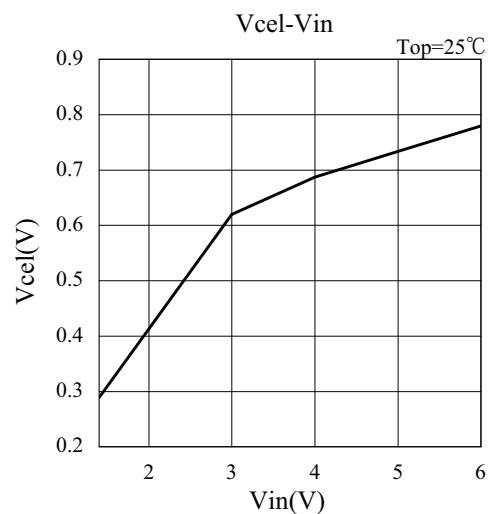
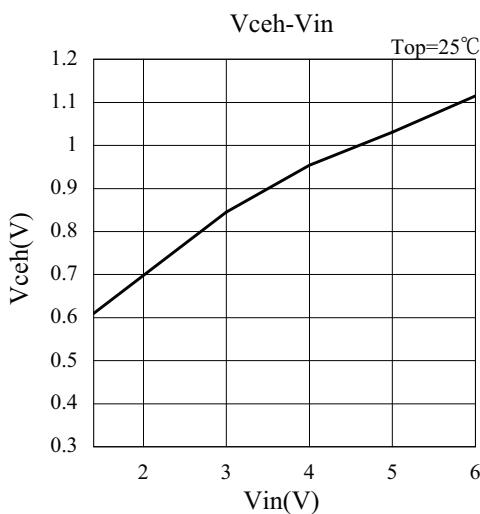
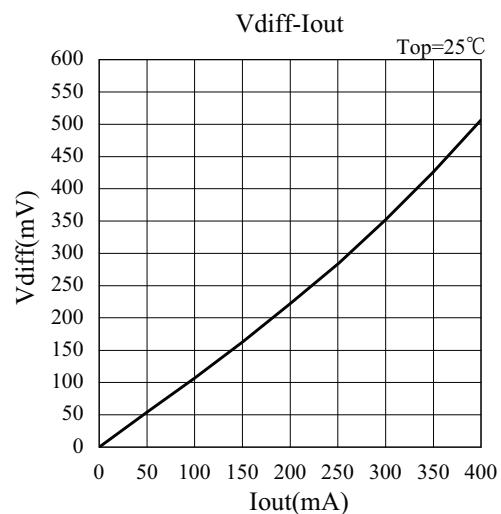
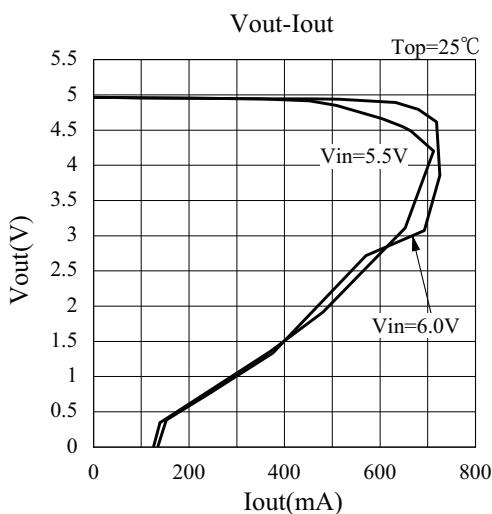
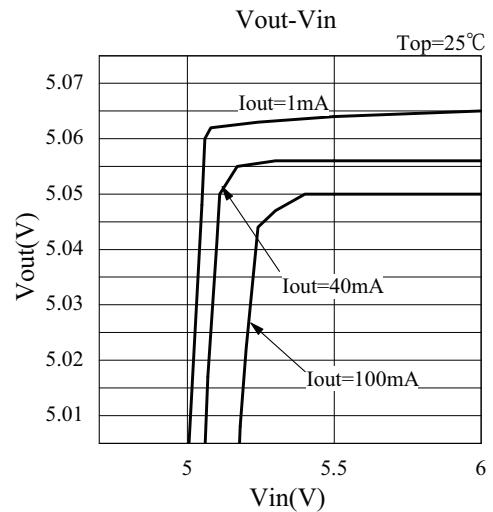
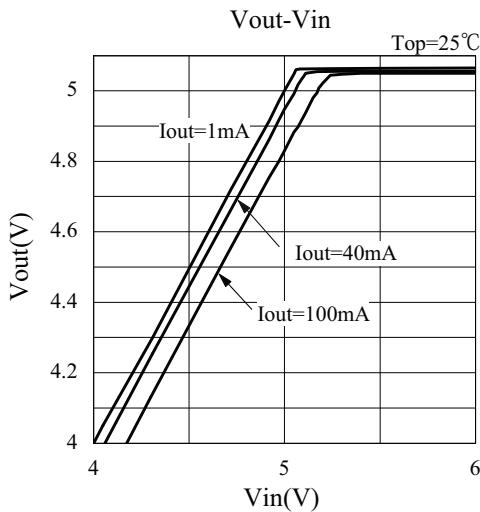
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- 5.0V Vout unit (ELM8850xxA)



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