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AN80xx/AN80xxM Series

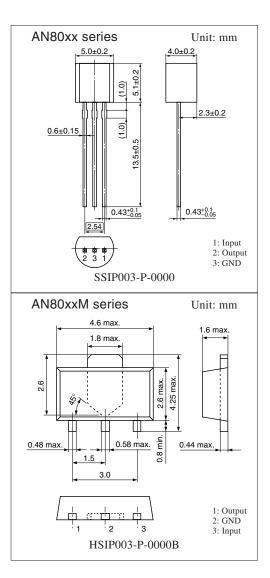
3-pin, positive output, low dropout voltage regulator (50 mA type)

Overview

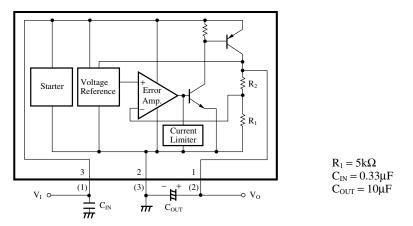
The AN80xx series and the AN80xxM series are 3pin, low dropout, fixed positive output type monolithic voltage regulators. Since their power consumption can be minimized, they are suitable for battery-used power supply and reference voltage. 13 types of output voltage are available; 2V, 2.5V, 3V, 3.5V (SSIP003-P-0000 only), 4V, 4.5V, 5V, 6V, 7V, 8V, 8.5V, 9V, and 10V.

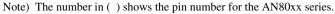
Features

- Input/output voltage difference: 0.3V max.
- Output current of up to 50mA
- Low bias current: 0.6mA typ.
- Output voltage: 2V, 2.5V, 3V, 3.5V (SSIP003-P-0000 only), 4V, 4.5V, 5V, 6V, 7V, 8V, 8.5V, 9V, and 10V
- Built-in overcurrent protection circuit



■ Block Diagram (AN80xxM series)





Absolute Maximum Ratings at $T_a = 25^{\circ}C$

Parameter		Symbol	Rating	Unit		
Supply voltage		VI	20	V		
Supply current		I _{CC}	100	mA		
Power dissipation		PD	650 *	mW		
Operating ambient	rating ambient temperature		ting ambient temperature		-30 to +80	°C
Store on town anothing	AN80xx series	т	-55 to +150	00		
Storage temperature	AN80xxM series	T _{stg}	-55 to +125	°C		

* AN80xxM series is mounted on standard board (glass epoxy: 20mm × 20mm × t1.7mm with Cu foil of 1cm² or more).

\blacksquare Electrical Characteristics at $T_a = 25^{\circ}C$

• AN8002, AN8002M (2V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	1.92	2	2.08	V
Line regulation	REGIN	$V_{\rm I}{=}2.5$ to 8V, $T_{\rm j}{=}25^{\circ}C$		2	40	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		7	20	mV
	KLOL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		10	25	mV
Minimum input/output voltage difference	V	$V_{I} = 1.9V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.06	0.06 0.2	V
Minimum input/output voltage difference	V _{DIF(min)}	$V_{I} = 1.9V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.6	1	mA
Ripple rejection ratio	RR	$V_I = 3$ to 5V, f = 120Hz	62	74		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		60		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.1		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 3V$, $I_0 = 20$ mA and $C_0 = 10\mu$ F.

• AN8025, AN8025M (2.5V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	2.4	2.5	2.6	V
Line regulation	REG _{IN}	$V_{I} = 3 \text{ to } 8.5 \text{V}, T_{j} = 25^{\circ} \text{C}$	—	2.5	50	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		8	3 20	mV
Load regulation	REGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		12.5	25	mV
Minimum input/output voltage difference	V	$V_{I} = 2.4V, I_{O} = 20mA, T_{j} = 25^{\circ}C$	—	0.07	0.2	V
winning input/output voltage unreferce	$V_{\text{DIF}(\text{min})}$	$V_{I} = 2.4V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.6	1	mA
Ripple rejection ratio	RR	$V_{I} = 3.5$ to 5.5V, f = 120Hz	60	72		dB
Output noise voltage	V _{no}	f = 10Hz to $100kHz$		65		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.13		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 3.5V$, $I_O = 20mA$ and $C_O = 10\mu F$.

Electrical Characteristics at $T_a = 25^{\circ}C$ (continued)

• AN8003, AN8003M (3V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	2.88	3	3.12	V
Line regulation	REG _{IN}	$V_I = 3.5$ to 9V, $T_j = 25^{\circ}C$		3	50	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		9	25	mV
Load regulation	KLOL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		15	30	mV
Minimum input/output voltage difference	V	$V_I = 2.9V, I_O = 20mA, T_j = 25^{\circ}C$		0.07	0.2	V
winning input/output voltage unreferce	$V_{\text{DIF}(\text{min})}$	$V_{I} = 2.9V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.6	1	mA
Ripple rejection ratio	RR	$V_{I} = 4$ to 6V, f = 120Hz	58	70		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		70		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.15		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}$ C means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 4V$, $I_O = 20mA$ and $C_O = 10\mu F$.

• AN8035(3.5V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	3.36	3.5	3.64	V
Line regulation	REGIN	$V_I = 4$ to 9.5V, $T_j = 25^{\circ}C$		3.5	50	mV
Load regulation	REG	$I_0 = 1 \text{ to } 40 \text{mA}, T_j = 25^{\circ}\text{C}$		10	30	mV
Load regulation	KEGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		20	40	mV
Minimum input/output volto og difference	V	$V_{I} = 3.4V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	v
Minimum input/output voltage difference	V _{DIF(min)}	$V_I = 3.4V, I_O = 50mA, T_j = 25^{\circ}C$		0.12	0.3	v
Bias current	I _{Bias}	$I_0 = 0mA$, $T_j = 25^{\circ}C$		0.6	1	mA
Ripple rejection ratio	RR	$V_I = 4.5$ to 6.5V, f = 120Hz	57	69		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		75		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.2		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_{\rm I}$ = 4.5V, $I_{\rm O}$ = 20mA and $C_{\rm O}$ = 10 $\mu F.$

• AN8004, AN8004M (4V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	3.84	4	4.16	V
Line regulation	REGIN	$V_{I} = 4.5$ to 10V, $T_{j} = 25^{\circ}C$		3.5	50	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		10	30	mV
Load regulation	KEGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		20	40	mV
Minimum input/output voltage difference	V	$V_{I} = 3.8V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	.07 0.2	V
Minimum input/output voltage difference	V _{DIF(min)}	$V_{I} = 3.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.6	1	mA
Ripple rejection ratio	RR	$V_{I} = 5$ to 7V, f = 120Hz	56	67		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		80		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.2		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored. Note 2) Unless otherwise specified, $V_I = 5V$, $I_O = 20mA$ and $C_O = 10\mu F$.

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Electrical Characteristics at $T_a = 25^{\circ}C$ (continued)

• AN8045, AN8045M (4.5V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	4.32	4.5	4.68	V
Line regulation	REGIN	$V_{I} = 5$ to 10.5V, $T_{j} = 25^{\circ}C$		4	50	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		11	35	mV
Load regulation	KEGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		23	45	mV
Minimum input/output voltage difference	N7	$V_{I} = 4.3V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	V
Minimum input/output voltage difference	$V_{\text{DIF}(\text{min})}$	$V_{I} = 4.3V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.7	1	mA
Ripple rejection ratio	RR	$V_{I} = 5.5$ to 7.5V, f = 120Hz	54	66		dB
Output noise voltage	V _{no}	f = 10Hz to $100kHz$		85		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.23		mV/°C

Note 1) The specified condition $T_i = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 5.5V$, $I_0 = 20$ mA and $C_0 = 10\mu$ F.

• AN8005, AN8005M (5V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	4.8	5	5.2	V
Line regulation	REG _{IN}	$V_{I} = 5.5$ to 11V, $T_{j} = 25^{\circ}C$		4.5	50	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		12	40	mV
Load regulation	KEGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		25	50	mV
Minimum input/output volto og difference	V	$V_{I} = 4.8V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	V
Minimum input/output voltage difference	V _{DIF(min)}	$V_{I} = 4.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.12	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.7	1	mA
Ripple rejection ratio	RR	$V_{I} = 6$ to 8V, f = 120Hz	52	64		dB
Output noise voltage	V _{no}	f = 10Hz to $100kHz$		95		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.25		mV/°C

Note 1) The specified condition $T_i = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 6V$, $I_O = 20mA$ and $C_O = 10\mu F$.

• AN8006, AN8006M (6V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	5.76	6	6.24	V
Line regulation	REGIN	$V_I = 6.5$ to 12V, $T_j = 25^{\circ}C$		5.5	60	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		13	45	mV
Load regulation		$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		28	55	mV
Minimum input/output voltogo difference	V	$V_I = 5.8V, I_O = 20mA, T_j = 25^{\circ}C$	—	0.07	0.2	V
Minimum input/output voltage difference	$V_{\text{DIF}(\text{min})}$	$V_{I} = 5.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.13	0.3	V
Bias current	I _{Bias}	$I_O = 0mA, T_j = 25^{\circ}C$		0.7	1.2	mA
Ripple rejection ratio	RR	$V_{I} = 7$ to 9V, f = 120Hz	51	63		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		105		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.3		mV/°C

Note 1) The specified condition $T_i = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 7V$, $I_O = 20mA$ and $C_O = 10\mu F$.

Electrical Characteristics at $T_a = 25^{\circ}C$ (continued)

• AN8007, AN8007M (7V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	6.72	7	7.28	v
Line regulation	REGIN	$V_I = 7.5$ to 13V, $T_j = 25^{\circ}C$		6.5	70	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		14	50	mV
Load regulation	REGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		31	60	mV
Minimum input/output voltogo difference	V	$V_{I} = 6.8V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	V
Minimum input/output voltage difference	V _{DIF(min)}	$V_{I} = 6.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.13	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.7	1.3	mA
Ripple rejection ratio	RR	$V_{I} = 8$ to 10V, f = 120Hz	50	62		dB
Output noise voltage	V_{no}	f = 10Hz to 100kHz		120		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.35		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}$ C means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 8V$, $I_O = 20mA$ and $C_O = 10\mu F$.

• AN8008, AN8008M (8V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	7.68	8	8.32	V
Line regulation	REGIN	$V_{I} = 8.5$ to 14V, $T_{j} = 25^{\circ}C$		7.5	80	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		15	55	mV
		$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		34	65	mV
Minimum innut/output voltogo difference	V	$V_{I} = 7.8V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	V
Minimum input/output voltage difference	V _{DIF(min)}	$V_{I} = 7.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.14	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.7	1.3	mA
Ripple rejection ratio	RR	$V_{I} = 9$ to 11V, f = 120Hz	49	61		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		135		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.4		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 9V$, $I_O = 20mA$ and $C_O = 10\mu F$.

• AN8085, AN8085M (8.5V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	8.16	8.50	8.84	V
Line regulation	REG _{IN}	$V_{I} = 9$ to 14.5V, $T_{j} = 25^{\circ}C$		8.3	90	mV
Load regulation	REG	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		16	60	mV
	REGL	$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		36	70	mV
Minimum input/output voltage difference	V	$V_{I} = 8.3V, I_{O} = 20mA, T_{j} = 25^{\circ}C$		0.07	0.2	V
Minimum input/output voitage unrefence	V _{DIF(min)}	$V_{I} = 8.3V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.14	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.8	1.4	mA
Ripple rejection ratio	RR	$V_{I} = 9.5$ to 11.5V, f = 120Hz	48	60		dB
Output noise voltage	V _{no}	f = 10Hz to $100kHz$		140		μν
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.43		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored. Note 2) Unless otherwise specified, $V_I = 9.5V$, $I_O = 20$ mA and $C_O = 10\mu$ F.

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Electrical Characteristics at T_a = 25°C (continued)

• AN8009, AN8009M (9V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	8.64	9	9.36	V
Line regulation	REGIN	$V_I = 9.5$ to 15V, $T_j = 25^{\circ}C$		9	100	mV
Load regulation	REGL	$I_0 = 1$ to 40mA, $T_j = 25^{\circ}C$		17	70	mV
		$I_0 = 1$ to 50mA, $T_j = 25^{\circ}C$		37	75	mV
Minimum input/output voltage difference	V _{DIF(min)}	$V_I = 8.8V, I_O = 20mA, T_j = 25^{\circ}C$		0.07	0.2	V
		$V_{I} = 8.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.14	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.8	1.4	mA
Ripple rejection ratio	RR	$V_{I} = 10$ to 12V, f = 120Hz	47	59		dB
Output noise voltage	V_{no}	f = 10Hz to $100kHz$		150		μν
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_j = -30 \text{ to } +125^{\circ}\text{C}$		0.45		mV/°C

Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 10V$, $I_0 = 20mA$ and $C_0 = 10\mu F$.

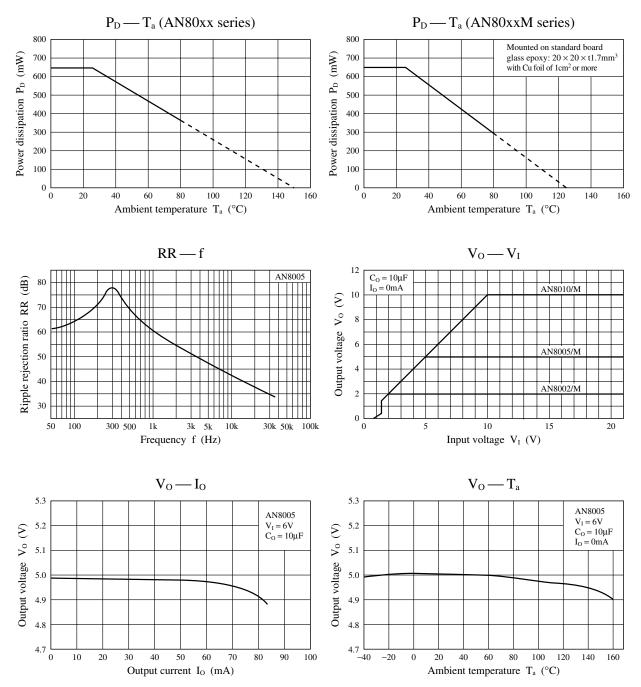
• AN8010, AN8010M (10V type)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Output voltage	Vo	$T_j = 25^{\circ}C$	9.6	10	10.4	V
Line regulation	REGIN	$V_{I} = 10.5$ to 16V, $T_{j} = 25^{\circ}C$		10	100	mV
Load regulation	REGL	$I_0 = 1 \text{ to } 40 \text{mA}, T_j = 25^{\circ}\text{C}$		18	75	mV
		$I_0 = 1 \text{ to } 50 \text{mA}, T_j = 25^{\circ}\text{C}$		40	85	mV
Minimum input/output voltage difference	V _{DIF(min)}	$V_I = 9.8V, I_O = 20mA, T_j = 25^{\circ}C$		0.07	0.2	V
		$V_{I} = 9.8V, I_{O} = 50mA, T_{j} = 25^{\circ}C$		0.14	0.3	V
Bias current	I _{Bias}	$I_0 = 0mA, T_j = 25^{\circ}C$		0.8	1.4	mA
Ripple rejection ratio	RR	$V_{I} = 11$ to 13V, f = 120Hz	46	58		dB
Output noise voltage	V_{no}	f = 10Hz to 100kHz		165		μV
Output voltage temperature coefficient	$\Delta V_0/T_a$	$T_{j} = -30 \text{ to } +125^{\circ}\text{C}$		0.5		mV/°C

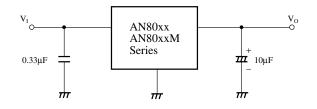
Note 1) The specified condition $T_j = 25^{\circ}C$ means that the test should be carried out within so short a test time (within 10ms) that the characteristic value drift due to the chip junction temperature rise can be ignored.

Note 2) Unless otherwise specified, $V_I = 11V$, $I_O = 20mA$ and $C_O = 10\mu F$.

Main Characteristics



■ Application Circuit Example



• AN80xx and AN80xxM series have their internal gain increased in order to improve performance. When the power line on the output side is long, use a capacitor of 10μ F.

Also, the capacitor on the output side should be attached as close to the IC as possible.

• When using at a low temperature, it is recommended to use the capacitors with low internal impedance (for example, tantalum capacitor) for output capacitors.