

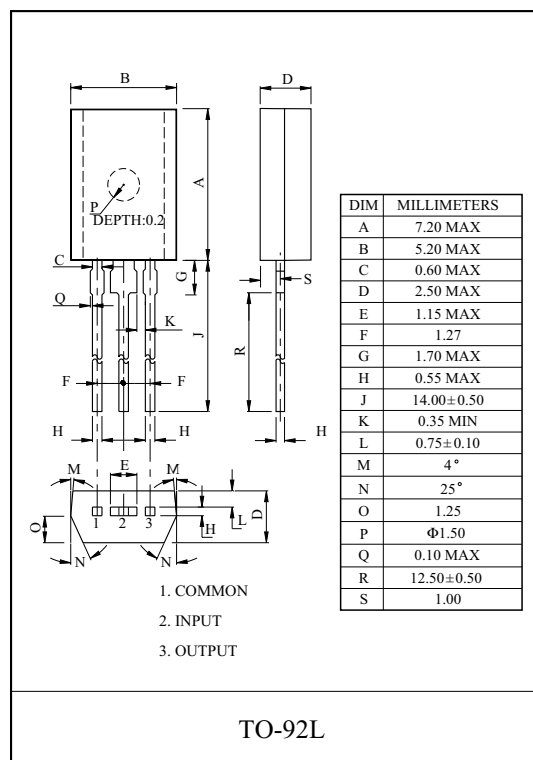
THREE TERMINAL POSITIVE VOLTAGE REGULATORS
5V, 6V, 8V, 9V, 10V, 12V, 15V, 18V, 20V, 24V.

FEATURES

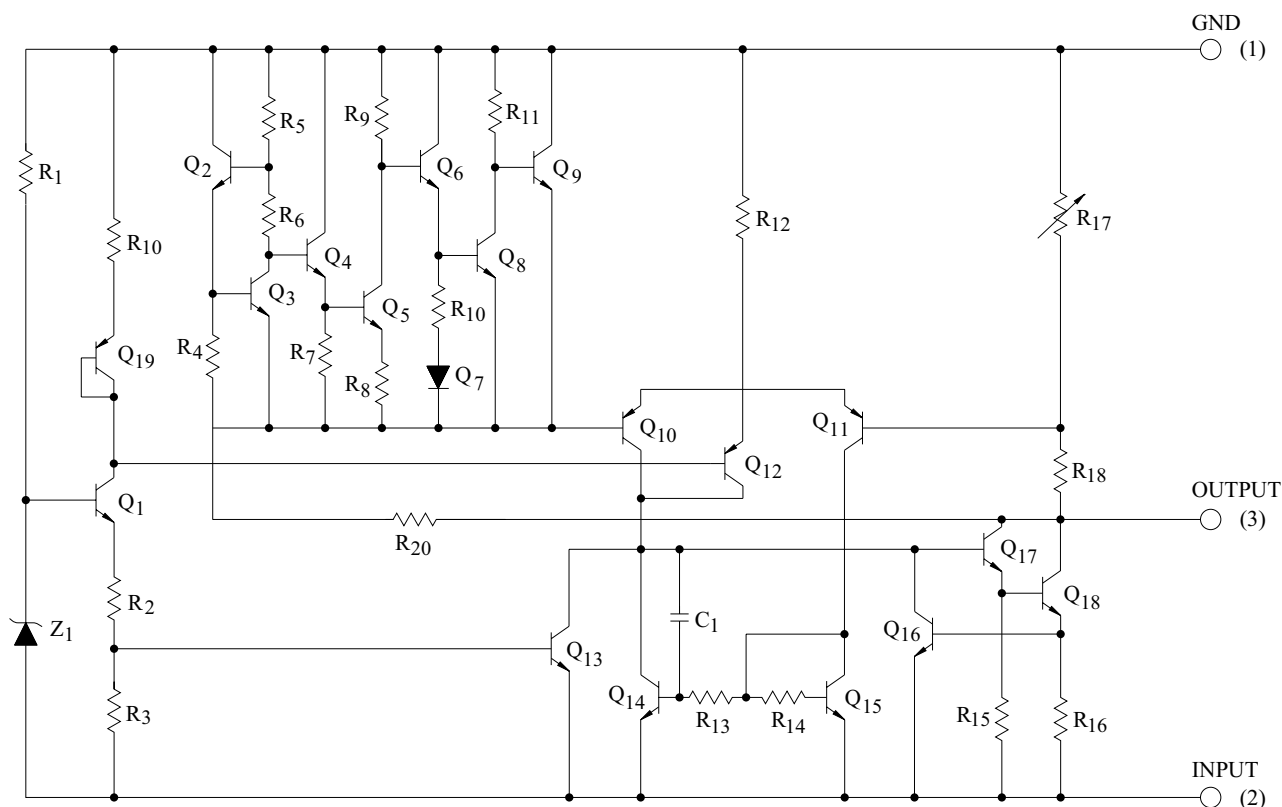
- Best Suited to a Power Supply for TTL and CMOS.
- Built-in Overcurrent Protective Circuit.
- Built-in Thermal Protective Circuit.
- Max. Output Current 150mA ($T_J=25^\circ\text{C}$).
- Packaged in TO-92L.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	KIA79L05BP ~ KIA79L15BP	V_{IN}	-35	V
	KIA79L18BP ~ KIA79L24BP		-40	
Power Dissipation ($T_c=25^\circ\text{C}$)		P_D	800	mW
Operating Junction Temperature		T_J	-30 ~ 150	$^\circ\text{C}$
Operating Temperature		T_{opr}	-30 ~ 75	$^\circ\text{C}$
Storage temperature		T_{stg}	-55 ~ 150	$^\circ\text{C}$



EQUIVALENT CIRCUIT



KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L05BP

(Unless otherwise specified, $V_{IN}=-10V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-5.2	-5.0	-4.8	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-20V $\leq V_{IN} \leq$ -7.0V	-	55	mV
			$T_j=25^{\circ}C$	-20V $\leq V_{IN} \leq$ -8.0V	-	45	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	11	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	5.0	
Output Voltage	V_{OUT}	1	-20V $\leq V_{IN} \leq$ -7.0V 1.0mA $\leq I_{OUT} \leq$ 40mA	-5.25	-	-4.75	V
			$V_{IN}=-10V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-5.25	-	-4.75	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.1	6.0	mA
			$T_j=125^{\circ}C$	-	-	5.5	
Quiescent Current Change	ΔI_{BI}	1	-20V $\leq V_{IN} \leq$ -8.0V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	40	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT}/\Delta t$	1		-	12	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-18V $\leq V_{IN} \leq$ -8.0V, $T_j=25^{\circ}C$, $f=120Hz$	41	49	-	dB
Dropout Voltage	$ V_{IN}-V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-0.6	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L06BP

(Unless otherwise specified, $V_{IN}=-11V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V _{OUT}	1	T _J =25 °C		-6.24	-6.0	-5.76	V
Input Regulation	Reg line	1	T _J =25 °C	-21V ≤ V _{IN} ≤ -8.1V	-	50	150	mV
				-21V ≤ V _{IN} ≤ -9.0V	-	45	110	
Load Regulation	Reg load	1	T _J =25 °C	1.0mA ≤ I _{OUT} ≤ 100mA	-	12	70	mV
				1.0mA ≤ I _{OUT} ≤ 40mA	-	5.5	35	
Output Voltage	V _{OUT}	1	-21V ≤ V _{IN} ≤ -8.1V 1.0mA ≤ I _{OUT} ≤ 40mA		-6.3	-	-5.7	V
			V _{IN} =-11V, 1.0mA ≤ I _{OUT} ≤ 70mA		-6.3	-	-5.7	
Quiescent Current	I _B	1	T _J =25 °C		-	3.1	6.0	mA
			T _J =125 °C		-	-	5.5	
Quiescent Current Change	ΔI _{BI}	1	-20V ≤ V _{IN} ≤ -9.0V		-	-	1.5	mA
	ΔI _{BO}		1.0mA ≤ I _{OUT} ≤ 40mA		-	-	0.1	
Output Noise Voltage	V _{NO}	3	Ta=25 °C, 10Hz ≤ f ≤ 100kHz		-	40	-	μV _{rms}
Long Term Stability	ΔV _{OUT} / Δt	1			-	14	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-19V ≤ V _{IN} ≤ -9.0V, T _J =25 °C, f=120Hz		39	47	-	dB
Dropout Voltage	V _{IN} - V _{OUT}	1	T _J =25 °C, I _{OUT} =40mA		-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC _{VO}	1	I _{OUT} =5mA		-	-0.7	-	mV/°C

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L08BP

(Unless otherwise specified, $V_{IN}=-14V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-8.3	-8.0	-7.7	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-23V $\leq V_{IN} \leq$ -10.5V	-	20	mV
			$T_j=25^{\circ}C$	-23V $\leq V_{IN} \leq$ -11V	-	12	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	15	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	7.0	
Output Voltage	V_{OUT}	1	-23V $\leq V_{IN} \leq$ -10.5V 1.0mA $\leq I_{OUT} \leq$ 40mA	-8.4	-	-7.6	V
			$V_{IN}=-14V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-8.4	-	-7.6	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.1	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-23V $\leq V_{IN} \leq$ -11V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	60	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1		-	20	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-23V $\leq V_{IN} \leq$ -12V, $T_j=25^{\circ}C$, $f=120Hz$	37	45	-	dB
Dropout Voltage	$ V_{IN} - V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-0.8	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L09BP

(Unless otherwise specified, $V_{IN}=-15V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V _{OUT}	1	T _j =25 °C		-9.36	-9.0	-8.64	V
Input Regulation	Reg line	1	T _j =25 °C	-24V ≤V _{IN} ≤-11.4V	-	80	200	mV
				-24V ≤V _{IN} ≤-12V	-	20	160	
Load Regulation	Reg load	1	T _j =25 °C	1.0mA ≤I _{OUT} ≤100mA	-	17	90	mV
				1.0mA ≤I _{OUT} ≤40mA	-	8.0	45	
Output Voltage	V _{OUT}	1	-24V ≤V _{IN} ≤-11.4V 1.0mA ≤I _{OUT} ≤40mA		-9.45	-	-8.55	V
			V _{IN} =-15V, 1.0mA ≤I _{OUT} ≤70mA		-9.45	-	-8.55	
Quiescent Current	I _B	1	T _j =25 °C		-	3.2	6.5	mA
			T _j =125 °C		-	-	6.0	
Quiescent Current Change	ΔI _{BI}	1	-24V ≤V _{IN} ≤-12V		-	-	1.5	mA
	ΔI _{BO}		1.0mA ≤I _{OUT} ≤40mA		-	-	0.1	
Output Noise Voltage	V _{NO}	3	Ta=25 °C, 10Hz ≤f ≤100kHz		-	65	-	μV _{rms}
Long Term Stability	ΔV _{OUT} / Δt	1			-	21	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-24V ≤V _{IN} ≤-12V, T _j =25 °C, f=120Hz		36	44	-	dB
Dropout Voltage	V _{IN} - V _{OUT}	1	T _j =25 °C, I _{OUT} =40mA		-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC _{VO}	1	I _{OUT} =5mA		-	-0.85	-	mV/°C

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L10BP

(Unless otherwise specified, $V_{IN}=-16V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-10.4	-10.0	-9.6	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-25V $\leq V_{IN} \leq$ -12.5V	-	80	mV
			$T_j=25^{\circ}C$	-25V $\leq V_{IN} \leq$ -13V	-	30	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	18	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	8.5	
Output Voltage	V_{OUT}	1	-25V $\leq V_{IN} \leq$ -12.5V 1.0mA $\leq I_{OUT} \leq$ 40mA	-10.5	-	-9.5	V
			$V_{IN}=-16V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-10.5	-	-9.5	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.2	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-25V $\leq V_{IN} \leq$ -13V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	70	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1		-	22	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-24V $\leq V_{IN} \leq$ -13V, $T_j=25^{\circ}C$, $f=120Hz$	36	43	-	dB
Dropout Voltage	$ V_{IN}-V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-0.9	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L12BP

(Unless otherwise specified, $V_{IN}=-19V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-12.5	-12.0	-11.5	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-27V $\leq V_{IN} \leq$ -14.5V	-	120	mV
			$T_j=25^{\circ}C$	-27V $\leq V_{IN} \leq$ -16V	-	100	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	20	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	10	
Output Voltage	V_{OUT}	1	-27V $\leq V_{IN} \leq$ -14.5V 1.0mA $\leq I_{OUT} \leq$ 40mA	-12.6	-	-11.4	V
			$V_{IN}=-19V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-12.6	-	-11.4	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.2	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-27V $\leq V_{IN} \leq$ -16V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	80	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT}/\Delta t$	1		-	24	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-25V $\leq V_{IN} \leq$ -15V, $T_j=25^{\circ}C$, $f=120Hz$	37	42	-	dB
Dropout Voltage	$ V_{IN}-V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-1.0	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L15BP

(Unless otherwise specified, $V_{IN}=-23V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V _{OUT}	1	T _j =25 °C		-15.6	-15.0	-14.4	V
Input Regulation	Reg line	1	T _j =25 °C	-30V ≤V _{IN} ≤-17.5V	-	130	300	mV
				-30V ≤V _{IN} ≤-20V	-	110	250	
Load Regulation	Reg load	1	T _j =25 °C	1.0mA ≤I _{OUT} ≤100mA	-	25	150	mV
				1.0mA ≤I _{OUT} ≤40mA	-	12	75	
Output Voltage	V _{OUT}	1	-30V ≤V _{IN} ≤-17.5V 1.0mA ≤I _{OUT} ≤40mA		-15.75	-	-14.25	V
			V _{IN} =-23V, 1.0mA ≤I _{OUT} ≤70mA		-15.75	-	-14.25	
Quiescent Current	I _B	1	T _j =25 °C		-	3.3	6.5	mA
			T _j =125 °C		-	-	6.0	
Quiescent Current Change	ΔI _{BI}	1	-30V ≤V _{IN} ≤-20V		-	-	1.5	mA
	ΔI _{BO}		1.0mA ≤I _{OUT} ≤40mA		-	-	0.1	
Output Noise Voltage	V _{NO}	3	Ta=25 °C, 10Hz ≤f ≤100kHz		-	90	-	μV _{rms}
Long Term Stability	ΔV _{OUT} / Δt	1			-	30	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-28.5V ≤V _{IN} ≤-18.5V, T _j =25 °C, f=120Hz		34	39	-	dB
Dropout Voltage	V _{IN} - V _{OUT}	1	T _j =25 °C, I _{OUT} =40mA		-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC _{VO}	1	I _{OUT} =5mA		-	-1.3	-	mV/ °C

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L18BP

(Unless otherwise specified, $V_{IN}=-27V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-18.7	-18.0	-17.3	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-33V $\leq V_{IN} \leq$ -20.7V	-	32	mV
			$T_j=25^{\circ}C$	-33V $\leq V_{IN} \leq$ -21V	-	27	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	30	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	15	
Output Voltage	V_{OUT}	1	-33V $\leq V_{IN} \leq$ -20.9V 1.0mA $\leq I_{OUT} \leq$ 40mA	-18.9	-	-17.1	V
			$V_{IN}=-27V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-18.9	-	-17.1	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.3	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-33V $\leq V_{IN} \leq$ -21V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	150	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT}/\Delta t$	1		-	45	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-33V $\leq V_{IN} \leq$ -23V, $T_j=25^{\circ}C$, $f=120Hz$	33	48	-	dB
Dropout Voltage	$ V_{IN}-V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-1.5	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

KIA79L20BP

(Unless otherwise specified, $V_{IN}=-29V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-20.8	-20.0	-19.2	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-35V $\leq V_{IN} \leq$ -23.5V	-	33	mV
			$T_j=25^{\circ}C$	-35V $\leq V_{IN} \leq$ -24V	-	28	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	33	mV
			$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 40mA	-	17	
Output Voltage	V_{OUT}	1	-35V $\leq V_{IN} \leq$ -23.5V 1.0mA $\leq I_{OUT} \leq$ 40mA	-21.0	-	-19.0	V
			$V_{IN}=-29V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-21.0	-	-19.0	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.3	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-35V $\leq V_{IN} \leq$ -24V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	170	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1		-	49	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-35V $\leq V_{IN} \leq$ -27V, $T_j=25^{\circ}C$, f=120Hz	31	37	-	dB
Dropout Voltage	$ V_{IN} - V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-1.7	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

ELECTRICAL CHARACTERISTICS

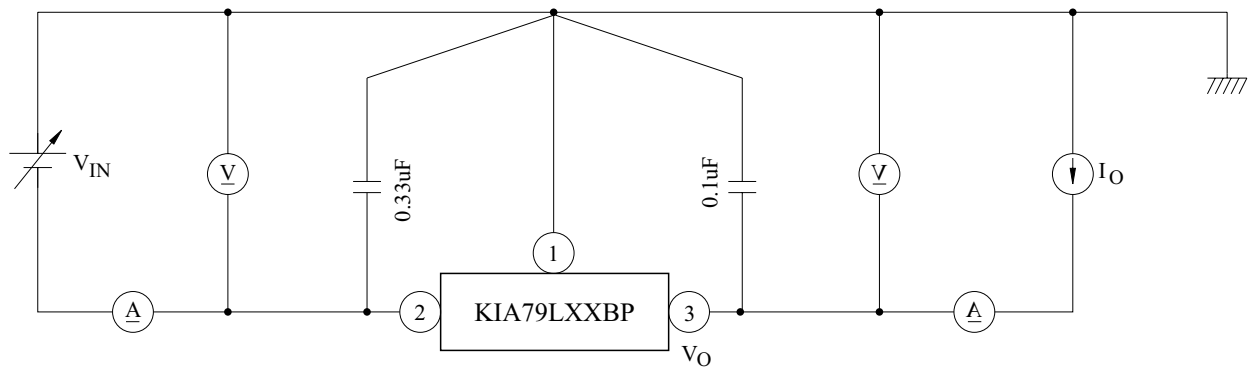
KIA79L24BP

(Unless otherwise specified, $V_{IN}=-33V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$)

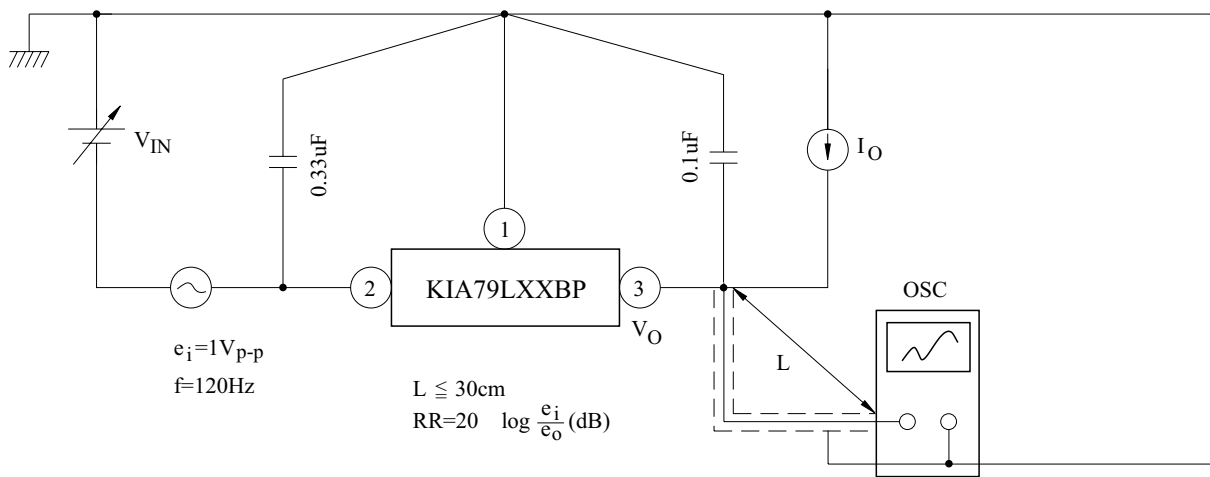
CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j=25^{\circ}C$	-25.0	-24.0	-23.0	V
Input Regulation	Reg line	1	$T_j=25^{\circ}C$	-38V $\leq V_{IN} \leq$ -27V	-	35	mV
				-38V $\leq V_{IN} \leq$ -28V	-	30	
Load Regulation	Reg load	1	$T_j=25^{\circ}C$	1.0mA $\leq I_{OUT} \leq$ 100mA	-	40	mV
				1.0mA $\leq I_{OUT} \leq$ 40mA	-	20	
Output Voltage	V_{OUT}	1	-38V $\leq V_{IN} \leq$ -27V 1.0mA $\leq I_{OUT} \leq$ 40mA	-25.2	-	-22.8	V
			$V_{IN}=-33V$, 1.0mA $\leq I_{OUT} \leq$ 70mA	-25.2	-	-22.8	
Quiescent Current	I_B	1	$T_j=25^{\circ}C$	-	3.5	6.5	mA
			$T_j=125^{\circ}C$	-	-	6.0	
Quiescent Current Change	ΔI_{BI}	1	-38V $\leq V_{IN} \leq$ -28V	-	-	1.5	mA
	ΔI_{BO}		1.0mA $\leq I_{OUT} \leq$ 40mA	-	-	0.1	
Output Noise Voltage	V_{NO}	3	$T_a=25^{\circ}C$, 10Hz $\leq f \leq$ 100kHz	-	200	-	μV_{rms}
Long Term Stability	$\Delta V_{OUT}/\Delta t$	1		-	56	-	mV/ 1.0kHrs
Ripple Rejection Ratio	RR	2	-35V $\leq V_{IN} \leq$ -29V, $T_j=25^{\circ}C$, $f=120Hz$	31	47	-	dB
Dropout Voltage	$ V_{IN}-V_{OUT} $	1	$T_j=25^{\circ}C$, $I_{OUT}=40mA$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage	TC_{VO}	1	$I_{OUT}=5mA$	-	-2.0	-	mV/ $^{\circ}C$

KIA79L05BP~KIA79L24BP

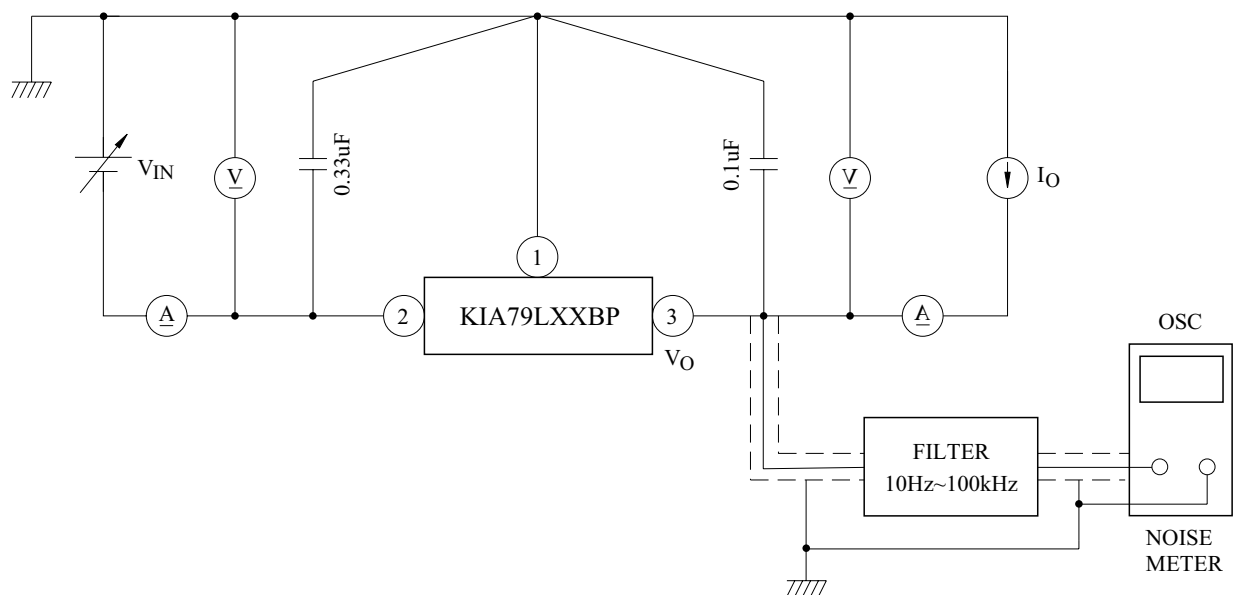
TEST CIRCUIT 1



TEST CIRCUIT 2



TEST CIRCUIT 3



KIA79L05BP~KIA79L24BP

