TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

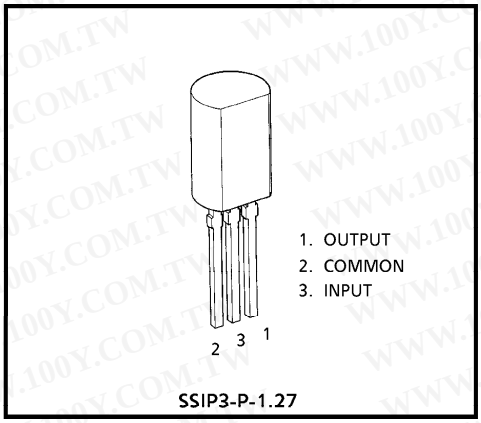
TA79L005P, TA79L006P, TA79L008P, TA79L009P, TA79L010P TA79L012P, TA79L015P, TA79L018P,TA79L020P, TA79L024P

– 5V, – 6V, – 8V, – 9V, – 10V, – 12V, – 15V, – 18V, – 20V, – 24V

3-TERMINAL NEGATIVE VOLTAGE REGULATORS

FEATURES

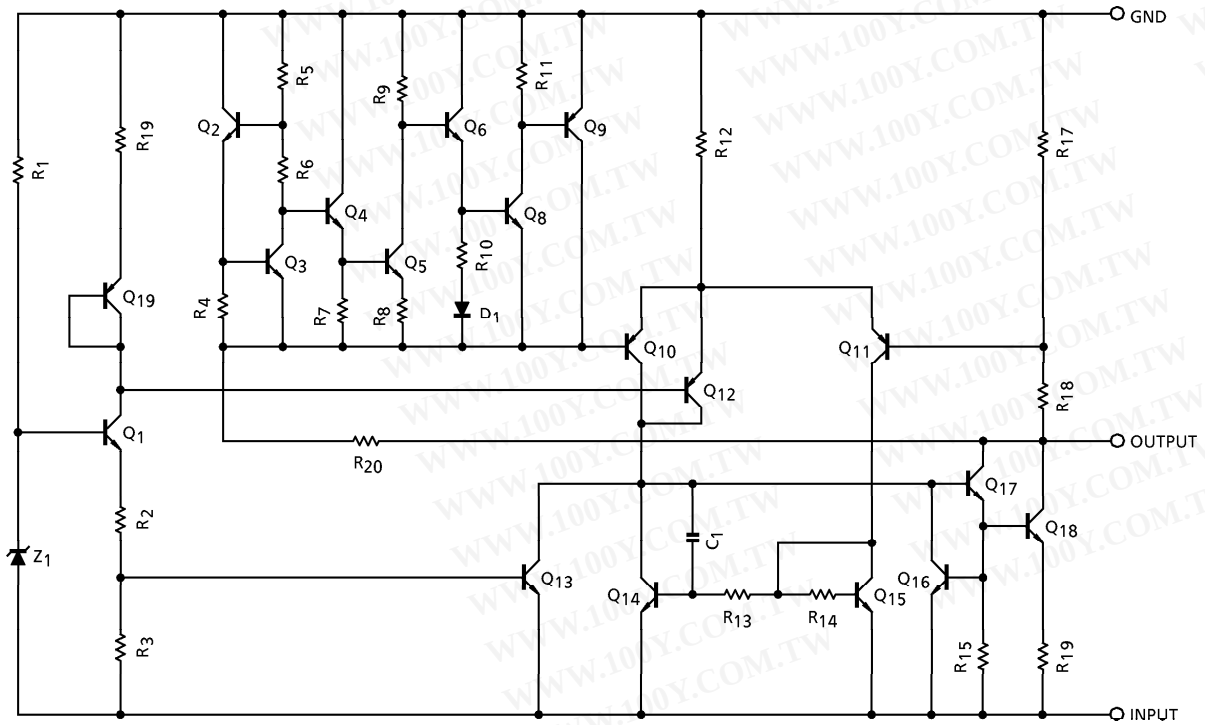
- Best suited to a power supply for TTL and C^2MOS
- Built-in overcurrent protective circuit
- Built-in thermal protective circuit
- Max. output current 150mA (T_j = 25°C)
- Packaged in TO-92MOD



SSIP3-P-1.27

Weight : 0.36g (Typ.)

EQUIVALENT CIRCUIT



961001EBA2

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	TA79L005P	V_{IN}	−35	V
	TA79L006P			
	TA79L008P			
	TA79L009P			
	TA79L010P			
	TA79L012P			
	TA79L015P			
	TA79L018P		−40	
	TA79L020P			
	TA79L024P			
Power Dissipation	(Ta = 25°C)	P_D	800	mW
Operating Temperature		T_{opr}	−30~75	°C
Storage Temperature		T_{stg}	−55~150	°C
Operating Junction Temperature		T_j	−30~150	°C
Thermal Resistance		$R_{th\ (j-a)}$	156	°C / W

961001EBA2'

TA79L005P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −10V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−5.2	−5.0	−4.8	V
Line Regulation	Reg. Line	1	T_j = 25°C	−20V ≦ V_{IN} ≦ −7.0V	—	55	150	mV
				−20V ≦ V_{IN} ≦ −8.0V	—	45	100	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	11	60	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	5.0	30	
Output Voltage	V_{OUT}	1	T_j = 25°C	−20V ≦ V_{IN} ≦ −7.0V 1.0mA ≦ I_{OUT} ≦ 40mA	−5.25	—	−4.75	V
				1.0mA ≦ I_{OUT} ≦ 70mA	−5.25	—	−4.75	
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} ≦ −8.0V		—	—	1.5	mA
	ΔI_{BO}	1	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	40	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	12	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−18V ≦ V_{IN} ≦ −8.0V T_j = 25°C, f = 120Hz		41	49	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	0.6	—	mV / °C

TA79L006P

ELECTRICAL CHARACTERISTICS

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

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j = 25°C$		-6.24	-6.0	-5.76	V
Line Regulation	Reg. Line	1	$T_j = 25°C$	$-21V \leqq V_{IN} \leqq -8.1V$	—	50	150	mV
				$-21V \leqq V_{IN} \leqq -9.0V$	—	45	110	
Load Regulation	Reg. Load	1	$T_j = 25°C$	$1.0mA \leqq I_{OUT} \leqq 100mA$	—	12	70	mV
				$1.0mA \leqq I_{OUT} \leqq 40mA$	—	5.5	35	
Output Voltage	V_{OUT}	1	$T_j = 25°C$	$-21V \leqq V_{IN} \leqq -8.1V$, $1.0mA \leqq I_{OUT} \leqq 40mA$	-6.3	—	-5.7	V
				$1.0mA \leqq I_{OUT} \leqq 70mA$	-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	$-21V \leqq V_{IN} \leqq -9.0V$		—	—	1.5	mA
	ΔI_{BO}	1	$1.0mA \leqq I_{OUT} \leqq 40mA$		—	—	0.1	
Output Noise Voltage	V_{NO}	2	$Ta = 25°C$, $10Hz \leqq f \leqq 100kHz$		—	40	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	14	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	$-19V \leqq V_{IN} \leqq -9.0V$, $T_j = 25°C$, $f = 120Hz$		39	47	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	$T_j = 25°C$		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	$I_{OUT} = 5mA$		—	0.7	—	mV / °C

TA79L008P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −14V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−8.3	−8.0	−7.7	V
Line Regulation	Reg. Line	1	T_j = 25°C	−23V ≦ V_{IN} ≦ −10.5V	—	20	175	mV
				−23V ≦ V_{IN} ≦ −11V	—	12	125	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	15	80	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	7.0	40	
Output Voltage	V_{OUT}	1	T_j = 25°C	−23V ≦ V_{IN} ≦ −10.5V 1.0mA ≦ I_{OUT} ≦ 40mA	−8.4	—	−7.6	V
				1.0mA ≦ I_{OUT} ≦ 70mA	−8.4	—	−7.6	
Quiescent Current	I_B	1	T_j = 25°C		—	3.1	6.5	mA
			T_j = 125°C		—	—	6.0	
Quiescent Current Change	ΔI_{BI}	1	−23V ≦ V_{IN} ≦ −11V		—	—	1.5	mA
	ΔI_{BO}	1	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	60	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	20	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−23V ≦ V_{IN} ≦ −12V T_j = 25°C, f = 120Hz		37	45	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	0.8	—	mV / °C

TA79L009P

ELECTRICAL CHARACTERISTICS

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

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j = 25°C$		−9.36	−9.0	−8.64	V
Line Regulation	Reg. Line	1	$T_j = 25°C$	$-24V \leqq V_{IN} \leqq -11.4V$	—	80	200	mV
				$-24V \leqq V_{IN} \leqq -12V$	—	20	160	
Load Regulation	Reg. Load	1	$T_j = 25°C$	$1.0mA \leqq I_{OUT} \leqq 100mA$	—	17	90	mV
				$1.0mA \leqq I_{OUT} \leqq 40mA$	—	8.0	45	
Output Voltage	V_{OUT}	1	$T_j = 25°C$	$-24V \leqq V_{IN} \leqq -11.4V$, $1.0mA \leqq I_{OUT} \leqq 40mA$	−9.45	—	−8.55	V
				$1.0mA \leqq I_{OUT} \leqq 70mA$	−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	$-24V \leqq V_{IN} \leqq -12V$		—	—	1.5	mA
	ΔI_{BO}	1	$1.0mA \leqq I_{OUT} \leqq 40mA$		—	—	0.1	
Output Noise Voltage	V_{NO}	2	$Ta = 25°C$, $10Hz \leqq f \leqq 100kHz$		—	65	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	21	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	$-24V \leqq V_{IN} \leqq -12V$, $T_j = 25°C$, $f = 120Hz$		36	44	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	$T_j = 25°C$		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	$I_{OUT} = 5mA$		—	0.85	—	mV / °C

TA79L010P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −16V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−10.4	−10.0	−9.6	V
Line Regulation	Reg. Line	1	T_j = 25°C	−25V ≦ V_{IN} ≦ −12.5V	—	80	230	mV
				−25V ≦ V_{IN} ≦ −13V	—	30	170	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	18	90	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	8.5	45	
Output Voltage	V_{OUT}	1	T_j = 25°C	−25V ≦ V_{IN} ≦ −12.5V 1.0mA ≦ I_{OUT} ≦ 40mA	−10.5	—	−9.5	V
				1.0mA ≦ I_{OUT} ≦ 70mA	−10.5	—	−9.5	
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	−25V ≦ V_{IN} ≦ −13V		—	—	1.5	mA
	ΔI_{BO}	1	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	70	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	22	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−24V ≦ V_{IN} ≦ −13V T_j = 25°C, f = 120Hz		36	43	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	0.9	—	mV / °C

TA79L012P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 19V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		– 12.5	– 12.0	– 11.5	V
Line Regulation	Reg. Line	1	T_j = 25°C	– 27V ≦ V_{IN} ≦ – 14.5V	—	120	250	mV
				– 27V ≦ V_{IN} ≦ – 16V	—	100	200	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	20	100	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	10	50	
Output Voltage	V_{OUT}	1	T_j = 25°C	– 27V ≦ V_{IN} ≦ – 14.5V 1.0mA ≦ I_{OUT} ≦ 40mA	– 12.6	—	– 11.4	V
				1.0mA ≦ I_{OUT} ≦ 70mA	– 12.6	—	– 11.4	
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	– 27V ≦ V_{IN} ≦ – 16V		—	—	1.5	mA
	ΔI_{BO}	1	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	80	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	24	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	– 25V ≦ V_{IN} ≦ – 15V T_j = 25°C, f = 120Hz		37	42	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	1.0	—	mV / °C

TA79L015P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −23V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−15.6	−15.0	−14.4	V
Line 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	T_j = 25°C	−30V ≦ V_{IN} ≦ −17.5V 1.0mA ≦ I_{OUT} ≦ 40mA	−15.75	—	−14.25	V
				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	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	90	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	30	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−28.5V ≦ V_{IN} ≦ −18.5V T_j = 25°C, f = 120Hz		34	39	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	1.3	—	mV / °C

TA79L018P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −27V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−18.7	−18.0	−17.3	V
Line Regulation	Reg. Line	1	T_j = 25°C	−33V ≦ V_{IN} ≦ 20.7V	—	32	325	mV
				−33V ≦ V_{IN} ≦ −21V	—	27	275	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	30	170	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	15	75	
Output Voltage	V_{OUT}	1	T_j = 25°C	−33V ≦ V_{IN} ≦ −20.9V 1.0mA ≦ I_{OUT} ≦ 40mA	−18.9	—	−17.1	V
				1.0mA ≦ I_{OUT} ≦ 70mA	−18.9	—	−17.1	
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	−33V ≦ V_{IN} ≦ −21V		—	—	1.5	mA
	ΔI_{BO}	1	1.0mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	150	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	45	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−33V ≦ V_{IN} ≦ −23V T_j = 25°C, f = 120Hz		33	48	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	1.5	—	mV / °C

TA79L020P

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −29V, I_{OUT} = 40mA, C_{IN} = 0.33μF, C_{OUT} = 0.1μF, 0°C ≦ T_j ≦ 125°C)

CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	T_j = 25°C		−20.8	−20.0	−19.2	V
Line Regulation	Reg. Line	1	T_j = 25°C	−35V ≦ V_{IN} ≦ −23.5V	—	33	330	mV
				−35V ≦ V_{IN} ≦ −24V	—	28	285	
Load Regulation	Reg. Load	1	T_j = 25°C	1.0mA ≦ I_{OUT} ≦ 100mA	—	33	180	mV
				1.0mA ≦ I_{OUT} ≦ 40mA	—	17	90	
Output Voltage	V_{OUT}	1	T_j = 25°C	−35V ≦ V_{IN} ≦ −23.5V 1.0mA ≦ I_{OUT} ≦ 40mA	−21.0	—	−19.0	V
				1.0mA ≦ I_{OUT} ≦ 70mA	−21.0	—	−19.0	
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	−35V ≦ V_{IN} ≦ −24V		—	—	1.5	mA
	ΔI_{BO}	1	10mA ≦ I_{OUT} ≦ 40mA		—	—	0.1	
Output Noise Voltage	V_{NO}	2	Ta = 25°C 10Hz ≦ f ≦ 100kHz		—	170	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	49	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	−35V ≦ V_{IN} ≦ −27V T_j = 25°C, f = 120Hz		31	37	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	T_j = 25°C		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	I_{OUT} = 5mA		—	1.7	—	mV / °C

TA79L024P

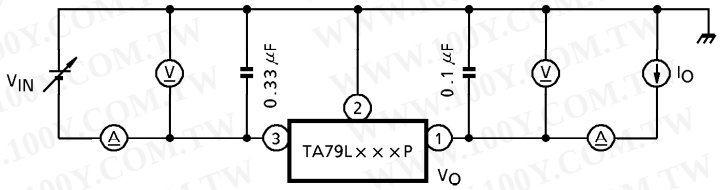
ELECTRICAL CHARACTERISTICS

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

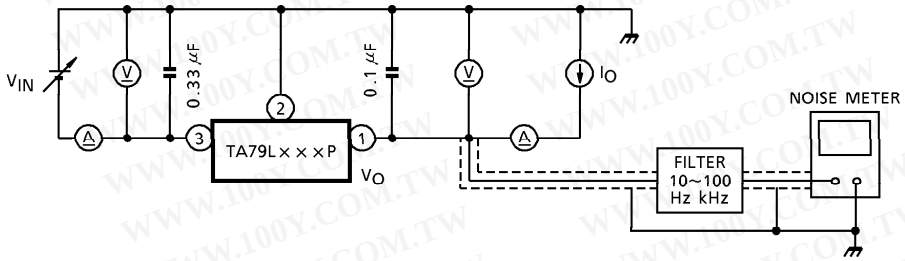
CHARACTERISTIC	SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage	V_{OUT}	1	$T_j = 25°C$		-25.0	-24.0	-23.0	V
Line Regulation	Reg. Line	1	$T_j = 25°C$	$-38V \leqq V_{IN} \leqq -27V$	—	35	350	mV
				$-38V \leqq V_{IN} \leqq -28V$	—	30	300	
Load Regulation	Reg. Load	1	$T_j = 25°C$	$1.0mA \leqq I_{OUT} \leqq 100mA$	—	40	200	mV
				$1.0mA \leqq I_{OUT} \leqq 40mA$	—	20	100	
Output Voltage	V_{OUT}	1	$T_j = 25°C$	$-38V \leqq V_{IN} \leqq -27V$ $1.0mA \leqq I_{OUT} \leqq 40mA$	-25.2	—	-22.8	V
				$1.0mA \leqq I_{OUT} \leqq 70mA$	-25.2	—	-22.8	
Quiescent Current	I_B	1	$T_j = 25°C$		—	3.5	6.5	mA
			$T_j = 125°C$		—	—	6.0	
Quiescent Current Change	ΔI_{BI}	1	$-38V \leqq V_{IN} \leqq -28V$		—	—	1.5	mA
	ΔI_{BO}	1	$1.0mA \leqq I_{OUT} \leqq 40mA$		—	—	0.1	
Output Noise Voltage	V_{NO}	2	$Ta = 25°C$ $10Hz \leqq f \leqq 100kHz$		—	200	—	μV_{rms}
Long Term Stability	$\Delta V_{OUT} / \Delta t$	1	—		—	56	—	mV / 1.0kh
Ripple Rejection Ratio	R.R.	3	$-35V \leqq V_{IN} \leqq -29V$ $T_j = 25°C$, $f = 120Hz$		31	47	—	dB
Dropout Voltage	$\lvert V_{IN}-V_{OUT} \rvert$	1	$T_j = 25°C$		—	1.7	—	V
Average Temperature Coefficient of Output Voltage	T_{CVO}	1	$I_{OUT} = 5mA$		—	2.0	—	mV / °C

TEST CIRCUIT

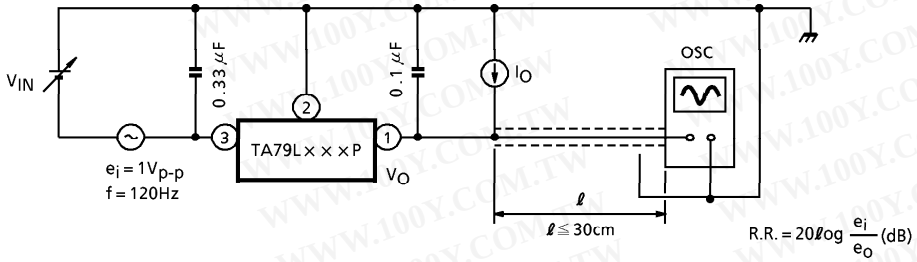
1. V_{OUT}, Reg.line, Reg.load, I_B, ΔI_B, $\Delta V_{OUT} / \Delta t$, $|V_{IN}-V_{OUT}|$, T_{CVO}



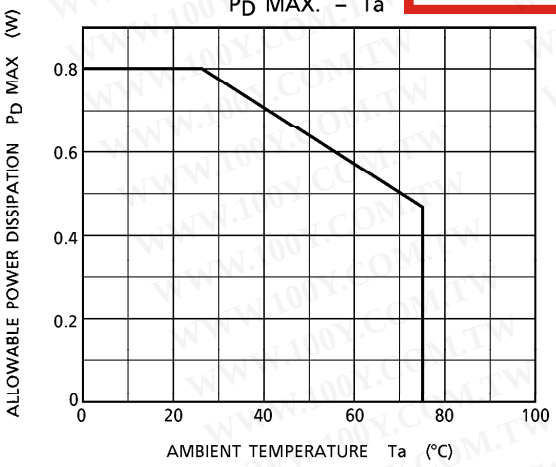
2. V_{NO}



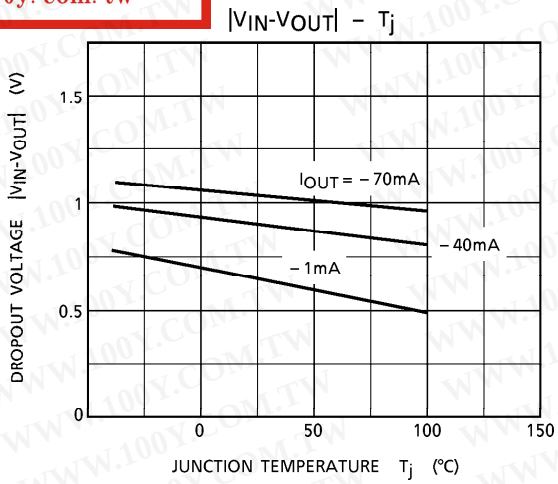
3. R.R.



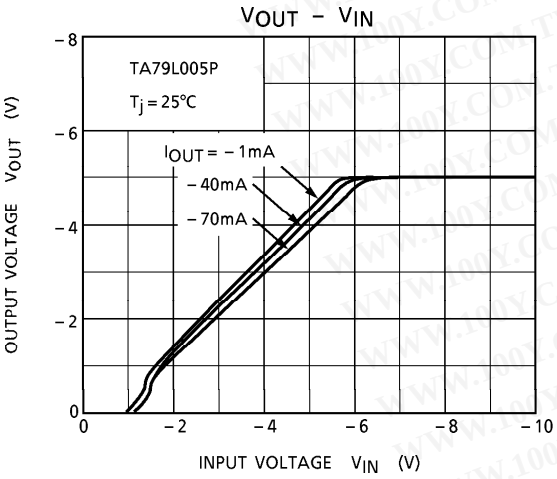
P_D MAX. – Ta



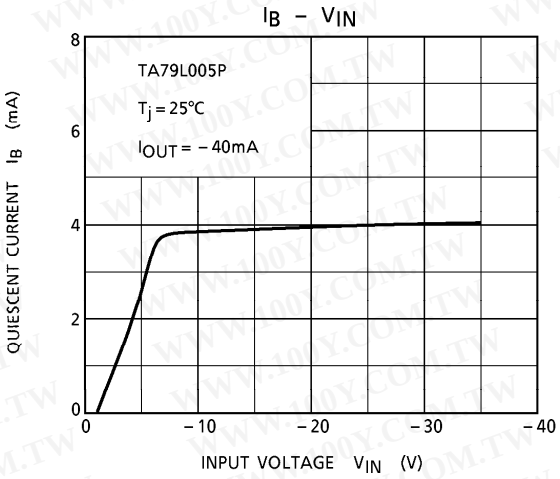
$|V_{IN}-V_{OUT}|$ – T_j



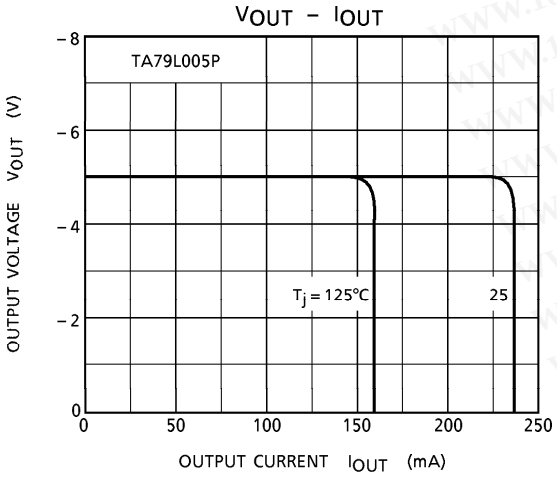
V_{OUT} – V_{IN}



I_B – V_{IN}



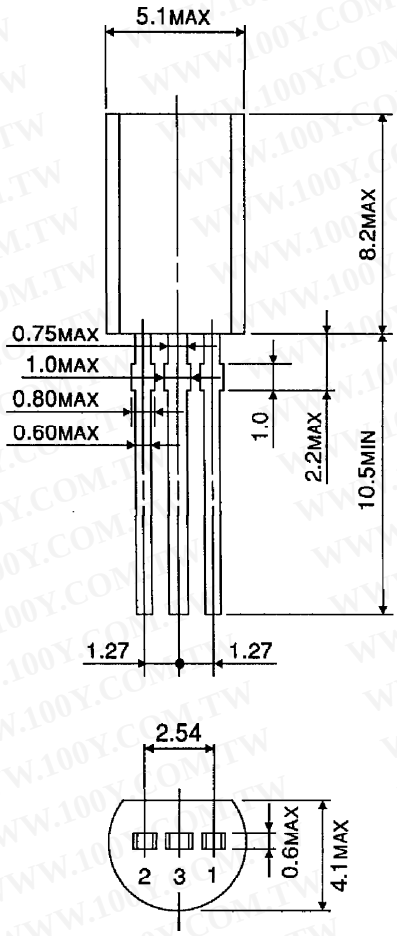
V_{OUT} – I_{OUT}



OUTLINE DRAWING

SSIP3-P-1.27

Unit : mm



Weight : 0.36g (Typ.)