TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

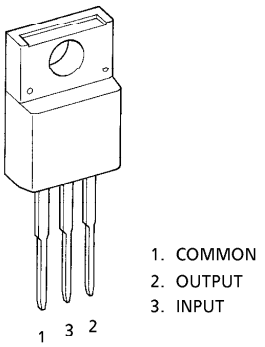
TA79005S, TA79006S, TA79007S, TA79008S, TA79009S, TA79010S TA79012S, TA79015S, TA79018S, TA79020S, TA79024S

1A THREE TERMINAL NEGATIVE VOLTAGE REGULATORS

– 5V, – 6V, – 7V, – 8V, – 9V, – 10V, – 12V, – 15V, – 18V, – 20V, – 24V

FEATURES

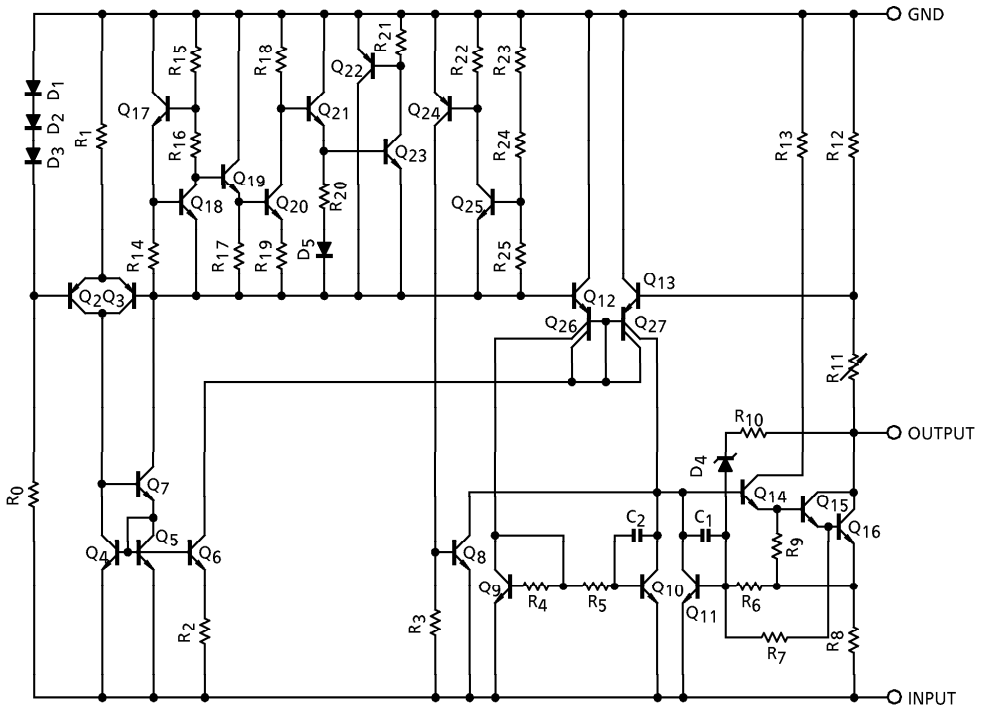
- Suitable for CMOS, TTL, and the other Digital IC Power Supply
- Internal Thermal Overload Protecting
- Internal Short Circuit Current Limiting
- Output Current in Excess of 1.0A
- Metal Fin (Tab) is fully covered with Mold Resin. (TO-220 NIS package)



HSIP3-P-2.54A

Weight : 1.7g (Typ.)

EQUIVALENT CIRCUIT



961001EBA2

● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Input Voltage	TA79005S	V_{IN}	– 35	V
	TA79006S			
	TA79007S			
	TA79008S			
	TA79009S			
	TA79010S			
	TA79012S			
	TA79015S			
	TA79018S		– 40	
	TA79020S			
	TA79024S			
Power Dissipation	(Ta = 25°C)	P_D	2	W
	(Tc = 25°C)		20	
Operating Temperature		T_{opr}	– 30~75	°C
Storage Temperature		T_{stg}	– 55~150	°C
Operating Junction Temperature		T_j	– 30~150	°C
Thermal Resistance		$R_{th\ (j-c)}$	6.25	°C / W
		$R_{th\ (j-a)}$	62.5	

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- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.

TA79005S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 10V, I_{OUT} = 500mA, 0°C ≦ T_j ≦ 125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

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	– 12V ≦ V_{IN} ≦ – 8V	—	7	50	mV
					– 25V ≦ V_{IN} ≦ – 7V	—	35	100	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA ≦ I_{OUT} ≦ 1.5A	—	11	100	mV
					250mA ≦ I_{OUT} ≦ 750mA	—	4	50	
Output Voltage		V_{OUT}	1	T_j = 25°C	– 20V ≦ V_{IN} ≦ – 7V 5mA ≦ I_{OUT} ≦ 1.0A	– 5.25	—	– 4.75	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.3	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	– 25V ≦ V_{IN} ≦ – 7V		—	—	1.3	mA
	Load	ΔI_{BO}	1	5mA ≦ I_{OUT} ≦ 1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz ≦ f ≦ 100kHz		—	40	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		63	70	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	0.6	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79006S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −11V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−6.25	−6.0	−5.75	V
Line Regulation		Reg.Line	1	T_j = 25°C	−13V≦V_{IN}≦−9V	—	9	60	mV
					−25V≦V_{IN}≦−8V	—	43	120	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	13	120	mV
					250mA≦I_{OUT}≦750mA	—	5	60	
Output Voltage		V_{OUT}	1	T_j = 25°C	−21V≦V_{IN}≦−8V 5mA≦I_{OUT}≦1.0A	−6.3	—	−5.7	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.3	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−25V≦V_{IN}≦−8V		—	—	1.3	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	45	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		61	68	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	0.7	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79007S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 12V, I_{OUT} = 500mA, 0°C ≦ T_j ≦ 125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		– 7.28	– 7.0	– 6.72	V
Line Regulation		Reg.Line	1	T_j = 25°C	– 15V ≦ V_{IN} ≦ – 10V	—	10	70	mV
					– 25V ≦ V_{IN} ≦ – 9V	—	45	140	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA ≦ I_{OUT} ≦ 1.5A	—	20	140	mV
					250mA ≦ I_{OUT} ≦ 750mA	—	7	70	
Output Voltage		V_{OUT}	1	T_j = 25°C	– 22V ≦ V_{IN} ≦ – 9V 5mA ≦ I_{OUT} ≦ 1.0A	– 7.35	—	– 6.65	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.3	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	– 25V ≦ V_{IN} ≦ – 9V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA ≦ I_{OUT} ≦ 1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz ≦ f ≦ 100kHz		—	49	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		60	67	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	0.9	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0 A		—	2.0	—	V

TA79008S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 14V, I_{OUT} = 500mA, 0°C ≦ T_j ≦ 125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

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	– 17V ≦ V_{IN} ≦ – 11V	—	11	80	mV
					– 25V ≦ V_{IN} ≦ – 10.5V	—	47	160	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA ≦ I_{OUT} ≦ 1.5A	—	26	160	mV
					250mA ≦ I_{OUT} ≦ 750mA	—	9	80	
Output Voltage		V_{OUT}	1	T_j = 25°C	– 23V ≦ V_{IN} ≦ – 10.5V 5mA ≦ I_{OUT} ≦ 1.0A	– 8.4	—	– 7.6	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.3	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	– 25V ≦ V_{IN} ≦ – 10.5V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA ≦ I_{OUT} ≦ 1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz ≦ f ≦ 100kHz		—	52	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		59	66	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	1.0	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79009S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −15V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−9.3	−9.0	−8.7	V
Line Regulation		Reg.Line	1	T_j = 25°C	−19V≦V_{IN}≦−13V	—	11	82	mV
					−26V≦V_{IN}≦−11.5V	—	48	162	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	33	162	mV
					250mA≦I_{OUT}≦750mA	—	11	82	
Output Voltage		V_{OUT}	1	T_j = 25°C	−24V≦V_{IN}≦−11.5V 5mA≦I_{OUT}≦1.0A	−9.4	—	−8.6	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.3	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−26.5V≦V_{IN}≦−13V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	60	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		57	64	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	1.1	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79010S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 16V, I_{OUT} = 500mA, 0°C ≦ T_j ≦ 125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		– 10.4	– 10	– 9.6	V
Line Regulation		Reg.Line	1	T_j = 25°C	– 20V ≦ V_{IN} ≦ – 14V	—	12	90	mV
					– 27V ≦ V_{IN} ≦ – 12.5V	—	50	180	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA ≦ I_{OUT} ≦ 1.5A	—	40	180	mV
					250mA ≦ I_{OUT} ≦ 750mA	—	13	90	
Output Voltage		V_{OUT}	1	T_j = 25°C	– 25V ≦ V_{IN} ≦ – 12.5V 5mA ≦ I_{OUT} ≦ 1.0A	– 10.5	—	– 9.5	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.4	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	– 27.5V ≦ V_{IN} ≦ – 14V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA ≦ I_{OUT} ≦ 1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz ≦ f ≦ 100kHz		—	65	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		57	63	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	1.3	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79012S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = – 19V, I_{OUT} = 500mA, 0°C ≦ T_j ≦ 125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		– 12.5	– 12	– 11.5	V
Line Regulation		Reg.Line	1	T_j = 25°C	– 22V ≦ V_{IN} ≦ – 16V	—	13	120	mV
					– 30V ≦ V_{IN} ≦ – 14.5V	—	55	240	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA ≦ I_{OUT} ≦ 1.5A	—	46	240	mV
					250mA ≦ I_{OUT} ≦ 750mA	—	17	120	
Output Voltage		V_{OUT}	1	T_j = 25°C	– 27V ≦ V_{IN} ≦ – 14.5V 5mA ≦ I_{OUT} ≦ 1.0A	– 12.6	—	– 11.4	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.4	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	– 30V ≦ V_{IN} ≦ – 14.5V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA ≦ I_{OUT} ≦ 1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz ≦ f ≦ 100kHz		—	75	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		54	61	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	1.6	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79015S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −23V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−15.6	−15	−14.4	V
Line Regulation		Reg.Line	1	T_j = 25°C	−26V≦V_{IN}≦−20V	—	14	150	mV
					−30V≦V_{IN}≦−17.5V	—	57	300	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	68	300	mV
					250mA≦I_{OUT}≦750mA	—	25	150	
Output Voltage		V_{OUT}	1	T_j = 25°C	−30V≦V_{IN}≦−17.5V 5mA≦I_{OUT}≦1.0A	−15.75	—	−14.25	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.4	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−30V≦V_{IN}≦−17.5V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	90	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		53	60	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	2.0	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79018S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −27V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−18.7	−18	−17.3	V
Line Regulation		Reg.Line	1	T_j = 25°C	−30V≦V_{IN}≦−24V	—	25	180	mV
					−33V≦V_{IN}≦−21V	—	80	360	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	110	360	mV
					250mA≦I_{OUT}≦750mA	—	55	180	
Output Voltage		V_{OUT}	1	T_j = 25°C	−33V≦V_{IN}≦−21V 5mA≦I_{OUT}≦1.0A	−18.85	—	−17.15	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.5	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−33V≦V_{IN}≦−21V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	110	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		52	59	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	2.5	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79020S

ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −30V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−20.8	−20	−19.2	V
Line Regulation		Reg.Line	1	T_j = 25°C	−32V≦V_{IN}≦−26V	—	28	180	mV
					−35V≦V_{IN}≦−24V	—	104	360	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	130	360	mV
					250mA≦I_{OUT}≦750mA	—	70	180	
Output Voltage		V_{OUT}	1	T_j = 25°C	−35V≦V_{IN}≦−24V 5mA≦I_{OUT}≦1.0A	−21.0	—	−19.0	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.6	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−36.5V≦V_{IN}≦−25V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	140	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		50	57	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	3.0	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TA79024S

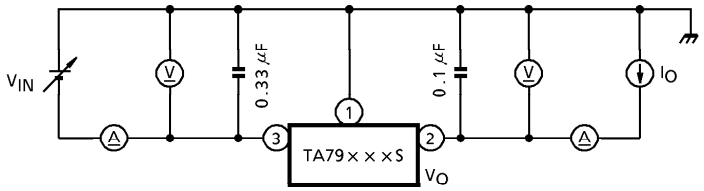
ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, V_{IN} = −33V, I_{OUT} = 500mA, 0°C≦T_j≦125°C, C_{IN} = 1.0μF, C_{OUT} = 1.0μF)

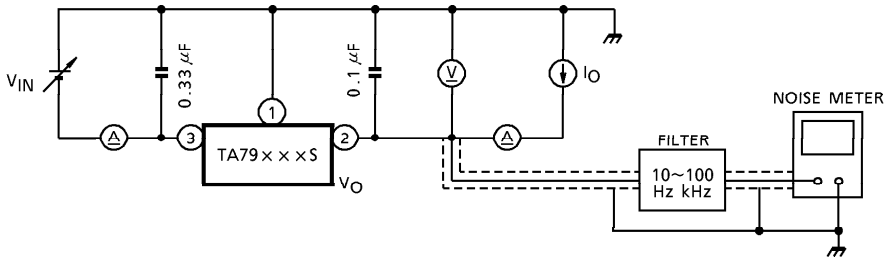
CHARACTERISTIC		SYMBOL	TEST CIR-CUIT	TEST CONDITION		MIN.	TYP.	MAX.	UNIT
Output Voltage		V_{OUT}	1	T_j = 25°C		−25.0	−24	−23.0	V
Line Regulation		Reg.Line	1	T_j = 25°C	−36V≦V_{IN}≦−30V	—	31	240	mV
					−38V≦V_{IN}≦−27V	—	118	480	
Load Regulation		Reg.Load	1	T_j = 25°C	5mA≦I_{OUT}≦1.5A	—	150	480	mV
					250mA≦I_{OUT}≦750mA	—	85	240	
Output Voltage		V_{OUT}	1	T_j = 25°C	−38V≦V_{IN}≦−27V 5mA≦I_{OUT}≦1.0A	−25.2	—	−22.8	V
Quiescent Current		I_B	1	T_j = 25°C		—	4.6	8.0	mA
Quiescent Current Change	Line	ΔI_{BI}	1	−38V≦V_{IN}≦−27V		—	—	1.0	mA
	Load	ΔI_{BO}	1	5mA≦I_{OUT}≦1.0A		—	—	0.5	
Output Noise Voltage		V_{NO}	2	Ta = 25°C, 10Hz≦f≦100kHz		—	170	—	μV_{rms}
Ripple Rejection		R.R.	3	f = 120Hz, I_{OUT} = 20mA		49	56	—	dB
Short Circuit Current Limit		I_{SC}	1	T_j = 25°C		—	1.9	—	A
Average Temperature Coefficient Of Output Voltage		T_{CVO}	1	I_{OUT} = 5.0mA		—	3.5	—	mV / °C
Dropout Voltage		V_D	1	T_j = 25°C, I_{OUT} = 1.0A		—	2.0	—	V

TEST CIRCUIT

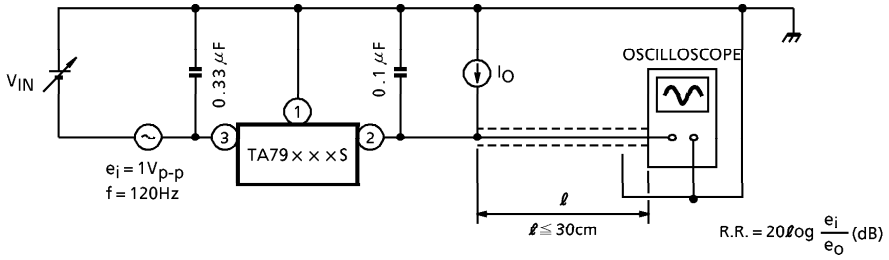
1. V_{OUT}, Reg.line, Reg.load, I_B, ΔI_B, V_D, T_{CVO}



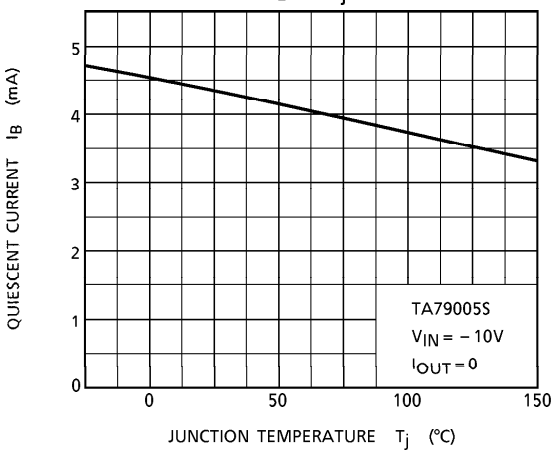
2. V_{NO}



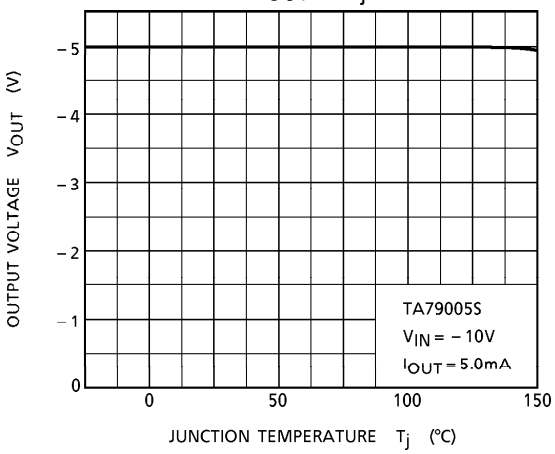
3. R.R.



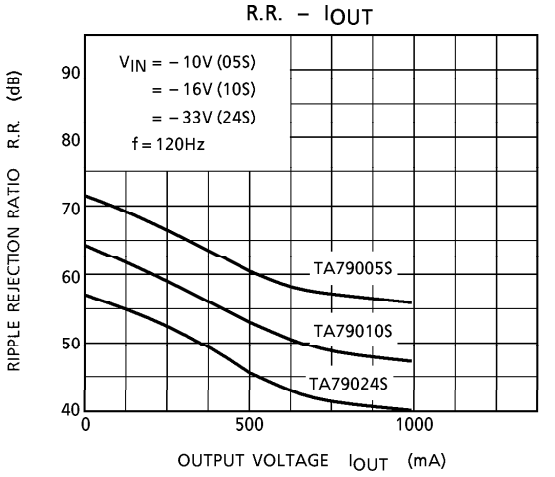
I_B – T_j



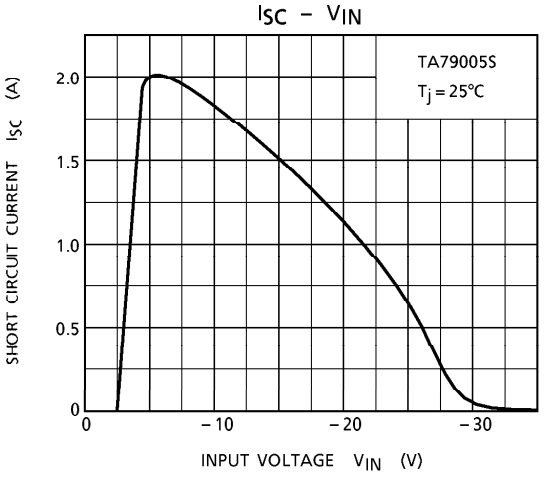
V_{OUT} – T_j



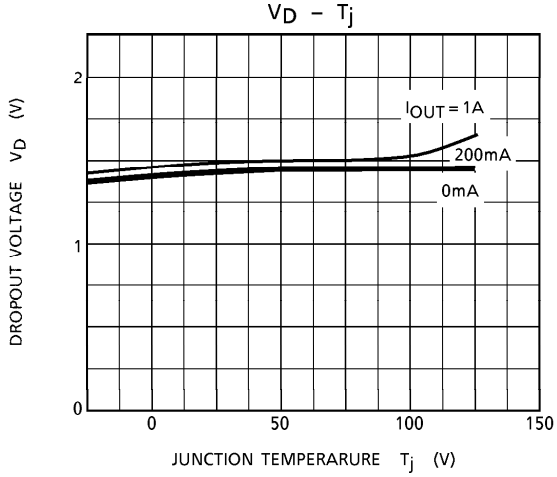
R.R. – I_{OUT}



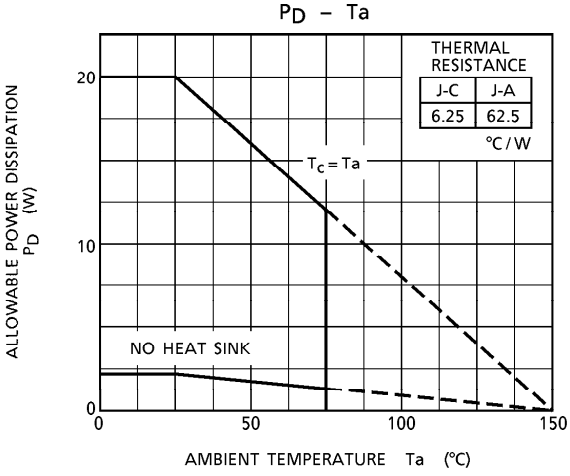
I_{SC} – V_{IN}



V_D – T_j



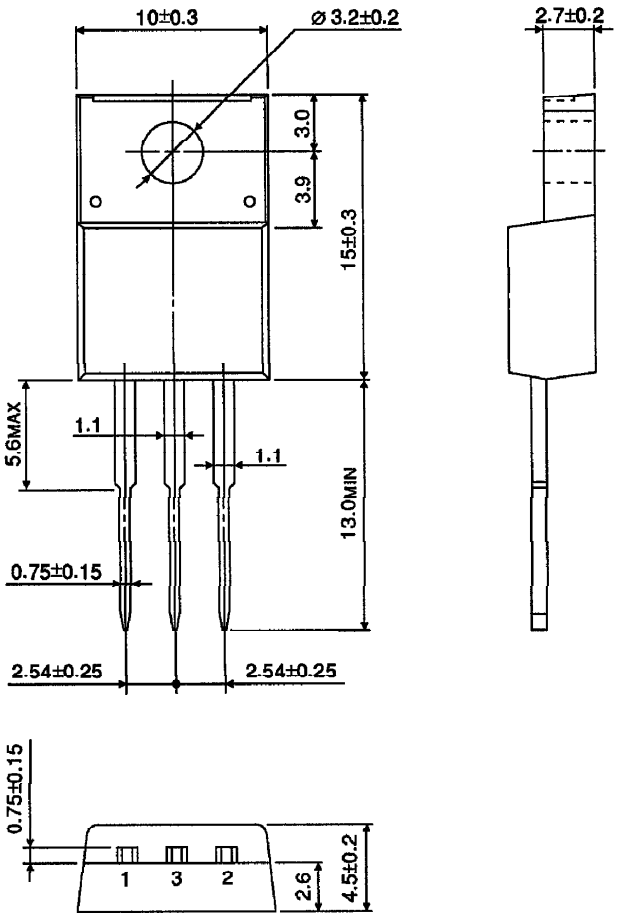
P_D – Ta



OUTLINE DRAWING

HSIP3-P-2.54A

Unit : mm



Weight : 1.7g (Typ.)