

1. Description

The KIA79L05 series of three terminal positive regulators is available with several fixed output voltages making them useful in a wide range of applications. KIA79L05 can use as a zener diode/resistor combination replacement, and lower quiescent current. These devices suitable for a multitude of applications that require a regulated supply of up to 100 mA.The voltages available allow the KIA79L05 to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. circuit takes over preventing the IC from overheating.

2. Applications

- Package SOT-89
- Output voltage tolerances of \pm 5% over the temperature range
- Output current of 100mA
- Internal thermal overload protection
- Output voltages of 5.0V

3. Pin information



SOT89 Front View

Pin	Description
1	GND
2	V _{IN}
3	V _{OUT}



4. Maximum ratings

Characteristic	Symbol	Rating	Units
Input voltage	V _{IN}	-35	V
Power dissipation (T _C =25°C)	PD	500	mW
Operating temperature	T _{OPR}	0~+125	°C
Storage temmperature	T _{STG}	-55~+150	°C

5. Electrical characteristics

(V _{IN} =-10V,I _{OUT} =40mA,C _{IN} =0.33uF,C _{OUT} =0.1uF,T _J =0°Cto125°C)							
Parameter	Symbol	Condition		Min	Тур	Max	Unit
Output voltage	V _{OUT}	Tj=25°C		-5.2	-5.0	-4.8	V
Input regulation	Reg line	T _j =25°C	-20V <u><</u> V _{IN} <u><</u> -7.0V	-	55	150	mV
			-20V <u><</u> V _{IN} <u><</u> -8.0V	-	45	100	mV
Load regulation	Reg load	T _j =25°C	1.0mA <u><</u> I _{OUT} <100mA	-	11	60	mV
			1.0mA <u><</u> I _{OUT} <40mA	-	5.0	30	mV
Output voltage	V _{OUT}	-20V <u><</u> V _{IN} <u><</u> -7.0V 1.0mA <u><</u> I _{OUT} <u><</u> 40mA		-5.25	-	-4.75	V
		V _{IN} =-10V, 1.0mA <u><</u> I _{OUT} ≤70mA		-5.25	-	-4.75	V
Quiescent current	Ι _Q	Tj=25°C		-	3.1	6.0	mA
		T _j =125°C				5.5	mA
Quiescent current change	Δl _Q	-20V <u><</u> V _{IN} <u><</u> -8.0V		-	-	1.5	mA
		1.0mA <u><</u> I _{OUT} <u><</u> 40mA		-	-	0.1	mA
Output noise voltage	V _{NO}	T _a =25°C 10Hz <u><f<< u="">100KHz</f<<></u>		-	40	-	uVrm
Long term stability	\triangle Vout/ \triangle t			-	12	-	mV/1.0kHrs
Ripple rejection ratio	RR	-18V <u>≤</u> V _{IN} <u><</u> -8.0V, T _i =25°C,f=120Hz		41	49	-	dB
Dropout voltage	IV _{IN} -V _{OUT} I	T _j =25°C,I _{OUT} =40mA		-	1.7	-	V
Average temperature Coefficient of output voltage	TC _{vo}	I _{OUT} =5mA		-	-0.6	-	mV/°C



6. Application circuits



7. Package outline



Dim	min	max		
A	1.40	1.60		
В	0.40	0.56		
B1	0.35 0.48			
С	0.35 0.44			
D	4.40 4.60			
D1	1.35 1.83			
е	1.50 BSC			
e1	3.00 BSC			
E	2.29	2.60		
Н	3.75 4.25			
L	0.80 1.20			

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