NEGATIVE VOLTAGE REGULATOR

LM79L05

TO-92
Plastic Package

pin 1.Ground
2. Input
3. Output

The Voltages Available allow these Regulators to be used in Logic Systems, Instrumentation, Hi-Fi Audio Circuits and other Solid State Electronic Equipment

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Input Voltage	V_{IN}	-30	V
Power Dissipation	P_D	625	mW
Operating Junction Temperature Range	T_j	0 to 150	ºC
Storage Temperature Range	T_{stg}	- 65 to +150	ºC
Lead Temperature 1.6mm (1/16inch) from Case for 10 seconds	T_L	260	ºC

Recommended Operating Conditions

DESCRIPTION	SYMBOL	MIN	TYP	MAX	UNIT
Input Voltage	V_I	-7		-20	V
Output Current	I_O			100	mA
Operating Junction Temperature	T_j	0		125	ºC

ELECTRICAL CHARACTERISTICS

(At Specified Virtual Junction Temperature, V_I= -10V, I_O=40mA, (unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Output Voltage	V_O	25ºC	-4.80		-5.20	V
		I_O=1mA to 40mA, 0ºC to 125ºC V_I= -7V to -20V, 0ºC to 125ºC	-4.75		-5.25	V
		I_O=1mA to 70mA, 0ºC to 125ºC	-4.75		-5.25	V
Line Regulation	R_{BGIN}	V_I= -7V to -20V, 25ºC			150	mV
		V_I= -8 to -20V, 25ºC			100	mV
Ripple Rejection	R_R	V_I= -8V to -18V, f=120Hz, 25ºC	41			dB
Load Regulation	R_{BGL}	I_O=1mA to100mA, 25ºC			60	mV
		I_O=1mA to 40mA, 25ºC			30	mV
Output Noise Voltage	V_{NO}	f=10Hz to 100KHz, 25ºC		40		µV
Dropout Voltage	$V_{DIF\ (min)}$	25ºC		1.7		V
Quiescent Current	I_Q	25ºC			6.0	mA
		125ºC			5.5	mA
Quiescent Current Change	ΔI_{QIN}	V_I= -8V to -20V, 0ºC to 125ºC			1.5	mA
	ΔI_{QL}	I_O=1mA to 40mA, 0ºC to 125ºC			0.1	mA

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