



H79L12

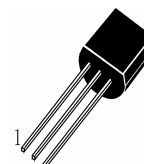
Description

H79L12 is the three terminal negative Regulators with single chip, and in a wide range of applications. It supplies fixed output voltages of -12V, deliver over 100mA output current ,and employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible.

Features

- Output current up to 100mA
- Low noise
- High Ripple Rejection
- Power Amplify Output Protection
- Thermal Overload Protection
- Current Overload Protection and Short Circuit Protection

TO-92



1—GND
2—INPUT
3—OUTPUT

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

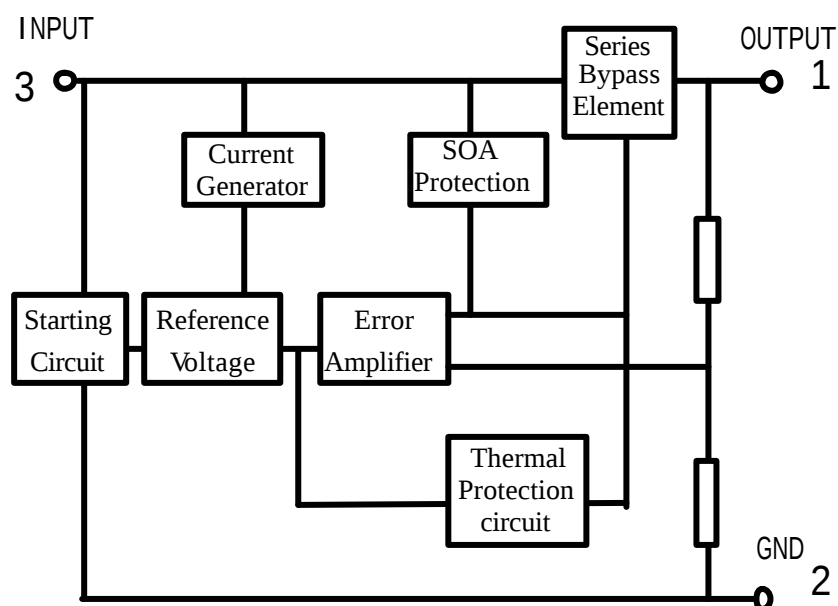
V_{IN} —Input Voltage..... -35V

T_{amb} —Operating Temperature Range..... -20~85

T_{stg} —Storage Temperature Range..... -55~150

T_j —Junction Temperature..... -55~150

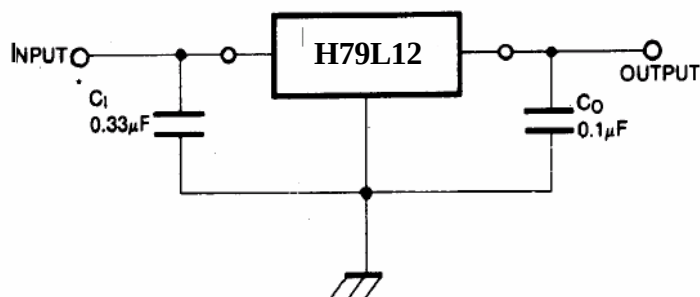
Internal Block Diagram





H79L12

Typical Application



ELECTRICAL CHARACTERISTICS

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

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
V_o	Output Voltage	-11.5	-12.0	-12.5	V	$T_j = 25$
		-11.4		-12.6		$-27V \leq V_{IN} \leq -14.5V$, $1mA \leq I_o \leq 40mA$
		-11.4		-12.6		$V_{IN} = -19V$, $1mA \leq I_o \leq 70mA$
ΔV_o	Line Regulation			250	mV	$T_j = 25$, $-27V \leq V_{IN} \leq -14.5V$
				200		$T_j = 25$, $-27V \leq V_{IN} \leq -16V$
ΔV_o	Load Regulation			100	mV	$T_j = 25$, $1mA \leq I_o \leq 100mA$
				50		$T_j = 25$, $1mA \leq I_o \leq 40mA$
I_q	Quiescent Current			6.5	mA	$T_j = 25$
ΔI_q	Quiescent Current Change			1.5	mA	$-27V \leq V_{IN} \leq -16V$
				0.1		$1mA \leq I_o \leq 40mA$
V_N	Output Noise Voltage		80		μV	$T_j = 25$, $10Hz \leq f \leq 100kHz$
RR	Ripple Rejection	37	42		dB	$T_j = 25$, $-25V \leq V_{IN} \leq -15V$, $f = 120Hz$
V_D	Dropout Voltage		1.7		V	$T_j = 25$