



H79L18

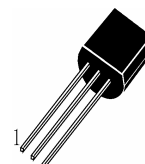
Description

H79L18 is the **three terminal negative Regulators with single chip**, and in a wide range of applications. It supplies fixed output voltages of -18V, 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 ($T_a=25^{\circ}\text{C}$)

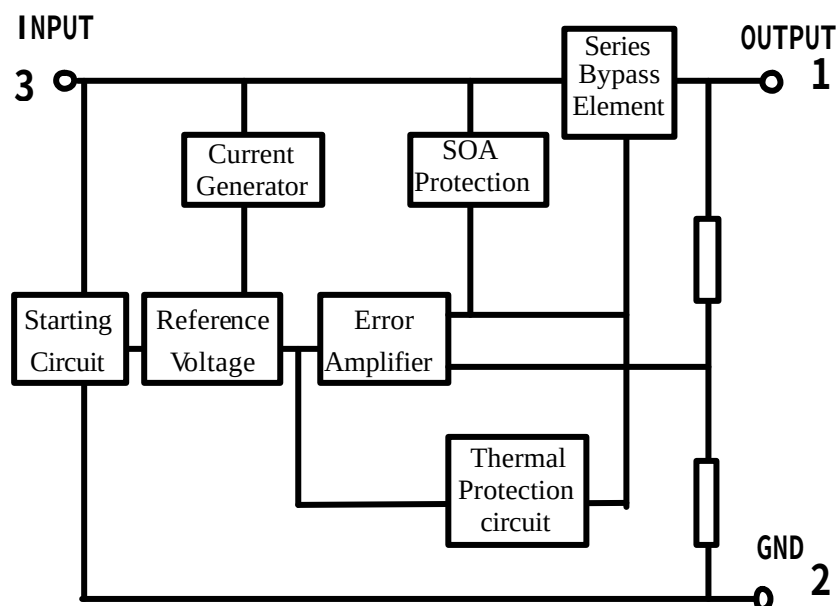
V_{IN} —Input Voltage..... -35V

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

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

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

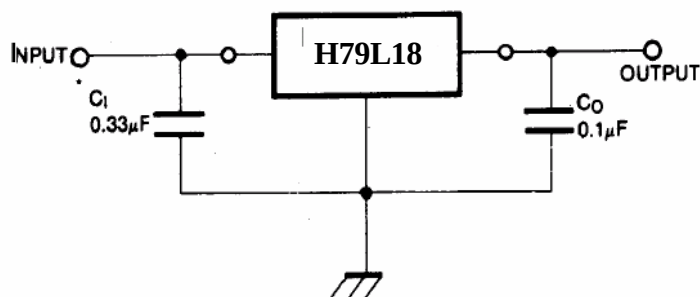
Internal Block Diagram





H79L18

Typical Application



ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{IN} = -27V$, $I_o = 40mA$, $0^\circ C \leq T_j \leq 125^\circ C$, $C_{IN} = 0.33\mu F$, $C_{OUT} = 0.1\mu F$)

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
V_o	Output Voltage	-17.3	-18.0	-18.7	V	$T_j = 25^\circ C$
		-17.1		-18.9		$-33V \leq V_{IN} \leq -20.7V$, $1mA \leq I_o \leq 40mA$
		-17.1		-18.9		$V_{IN} = -27V$, $1mA \leq I_o \leq 70mA$
ΔV_o	Line Regulation			325	mV	$T_j = 25^\circ C$, $-33V \leq V_{IN} \leq -20.7V$
				275		$T_j = 25^\circ C$, $-33V \leq V_{IN} \leq -21V$
ΔV_o	Load Regulation			170	mV	$T_j = 25^\circ C$, $1mA \leq I_o \leq 100mA$
				85		$T_j = 25^\circ C$, $1mA \leq I_o \leq 40mA$
I_q	Quiescent Current			6.5	mA	$T_j = 25^\circ C$
ΔI_q	Quiescent Current Change			1.5	mA	$-33V \leq V_{IN} \leq -21V$
				0.1		$1mA \leq I_o \leq 40mA$
V_N	Output Noise Voltage			150	μV	$T_j = 25^\circ C$, $10Hz \leq f \leq 100kHz$
RR	Ripple Rejection	33	48		dB	$T_j = 25^\circ C$, $-33V \leq V_{IN} \leq -23V$, $f = 120Hz$
V_D	Dropout Voltage		1.7		V	$T_j = 25^\circ C$