



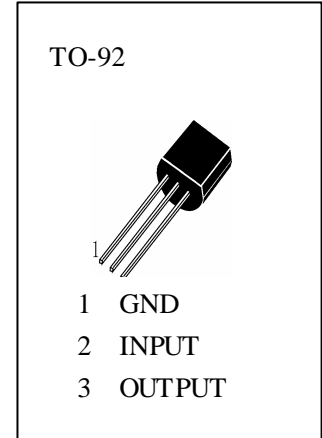
H79L12

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

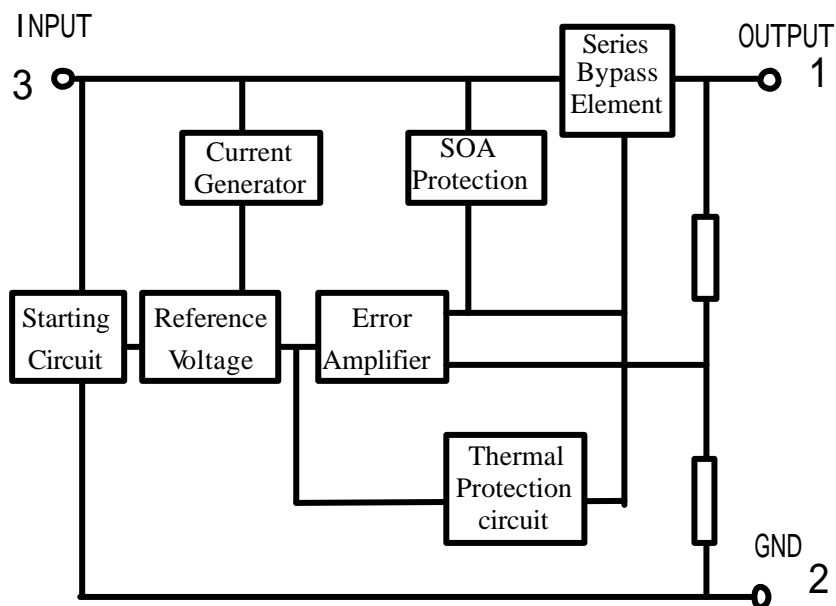
- Output current up to 100mA
- Low noise
- High Ripple Rejection
- Power Amplify Output Protection
- Thermal Overload Protection
- Current Overload Protection and Short Circuit Protection



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

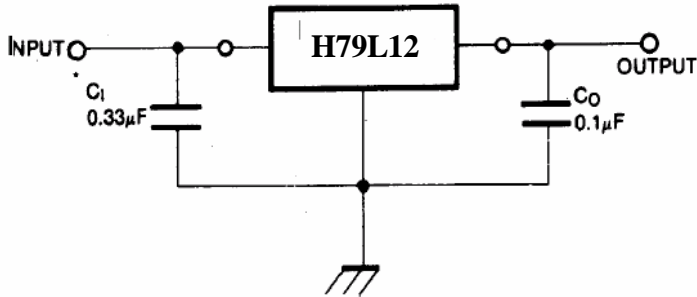
Internal Block Diagram





H79L12

Typical Application



ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{IN}=-19V, I_o=40mA, 0$ T_j 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		$-27V$ V_{IN} $-14.5V, 1mA$ I_o $40Ma$
		-11.4		-12.6		$V_{IN}=-19V, 1mA$ I_o $70mA$
V_o	Line Regulation			250	mV	$T_j=25$, $-27V$ V_{IN} $-14.5V$
				200		$T_j=25$, $-27V$ V_{IN} $-16V$
V_o	Load Regulation			100	mV	$T_j=25$, $1mA$ I_o $100mA$
				50		$T_j=25$, $1mA$ I_o $40mA$
I_q	Quiescent Current			6.5	mA	$T_j=25$
I_q	Quiescent Current Change			1.5	mA	$-27V$ V_{IN} $-16V$
				0.1		$1mA$ I_o $40mA$
V_N	Output Noise Voltage		80		μV	$T_j=25$, $10Hz$ f $100kHz$
RR	Ripple Rejection	37	42		dB	$T_j=25$, $-25V$ V_{IN} $-15V,$ $f=120Hz$
V_D	Dropout Voltage		1.7		V	$T_j=25$