



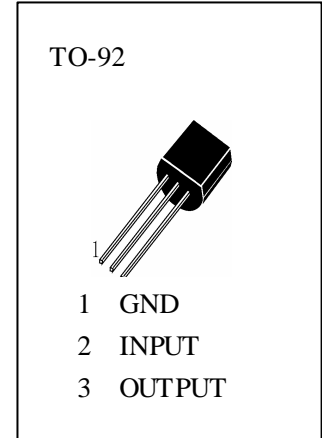
H79L09

Description

H79L09 is the three terminal negative Regulators with single chip, and in a wide range of applications. It supplies fixed output voltages of -9V, deliver over 100mA output current ,and employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible.

Features

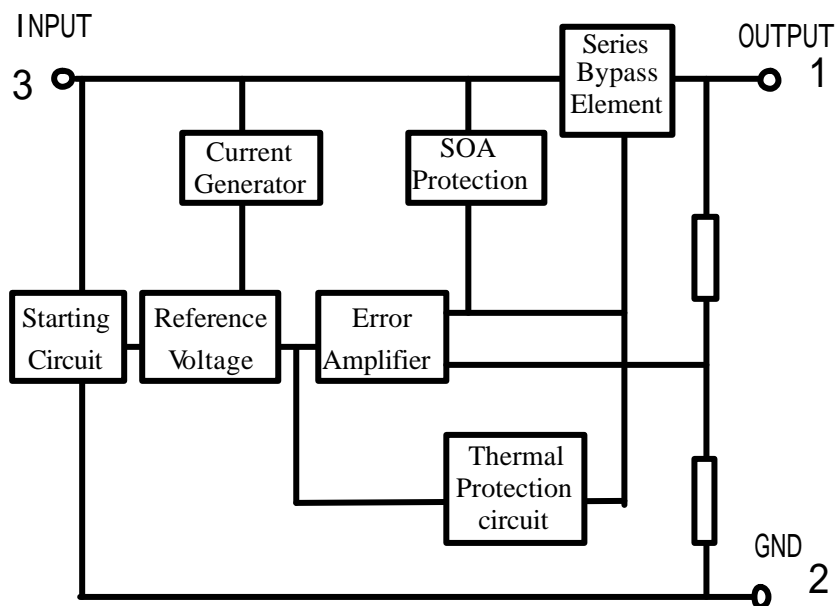
- Output current up to 100mA
- Low noise
- High Ripple Rejection
- Power Amplify Output Protection
- Thermal Overload Protection
- Current Overload Protection and Short Circuit Protection



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

V_{IN} —Input Voltage.....	-30V
T_{amb} —Operating Temperature Range.....	-20~85
T_{stg} —Storage Temperature Range.....	-55~150
T_j —Junction Temperature.....	-55~150

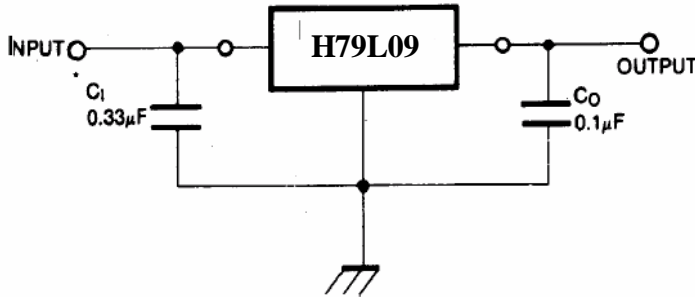
Internal Block Diagram





H79L09

Typical Application



ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{IN}=-15V, I_o=40mA, 0$ 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	-8.6	-9.0	-9.4	V	$T_j=25$
		-8.55		-9.45		$-24V \quad V_{IN} \quad -11.5V, 1mA \quad I_o$ 40mA
		-8.55		-9.45		$V_{IN}=-15V, 1mA \quad I_o \quad 70mA$
V_o	Line Regulation		15	200	mV	$T_j=25$, $-24V \quad V_{IN} \quad -11.5V$
				150		$T_j=25$, $-24V \quad V_{IN} \quad -12V$
V_o	Load Regulation			90	mV	$T_j=25$, 1mA $I_o \quad 100mA$
				45		$T_j=25$, 1mA $I_o \quad 40mA$
I_q	Quiescent Current		2.3	6.0	mA	$T_j=25$
I_q	Quiescent Current Change			1.5	mA	$-24V \quad V_{IN} \quad -11.5V$
				0.1		1mA $I_o \quad 40mA$
V_N	Output Noise Voltage			60	μV	$T_j=25$, 10Hz $f \quad 100kHz$
RR	Ripple Rejection	38	50		dB	$T_j=25$, $-22V \quad V_{IN} \quad -12V,$ $f=120Hz$
V_D	Dropout Voltage		1.7		V	$T_j=25$