



Shantou Huashan Electronic Devices Co.,Ltd.

3-Terminal Fixed Voltage Regulator

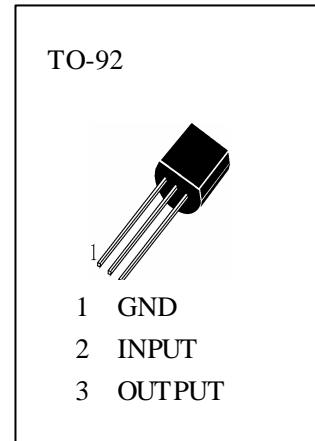
H79L24

Description

H79L24 is the three terminal negative Regulators with single chip, and in a wide range of applications. It supplies fixed output voltages of -24V, deliver over 100mA output current ,and employs internal current limiting, thermal shut down and safe operating area protection, making it essentially indestructible.

Features

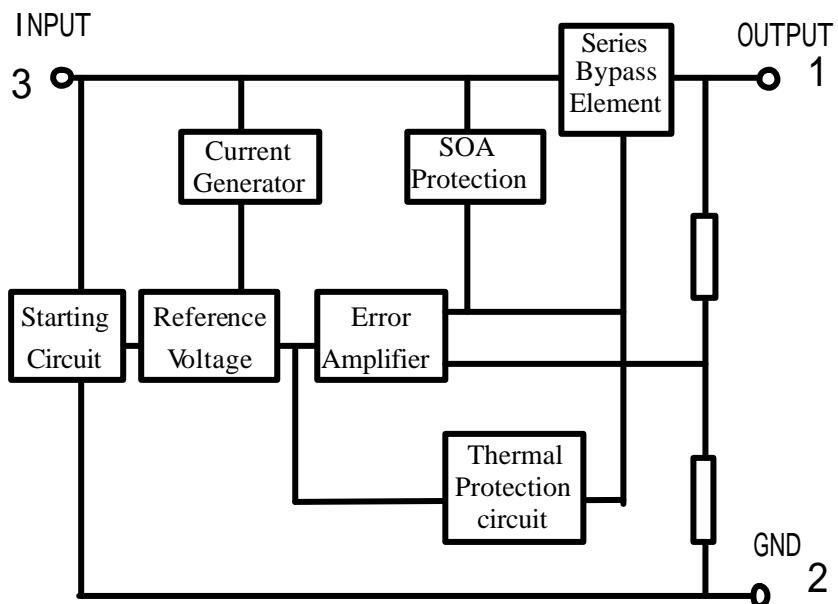
- Output current up to 100mA
- Low noise
- High Ripple Rejection
- Power Amplify Output Protection
- Thermal Overload Protection
- Current Overload Protection and Short Circuit Protection



Absolute Maximum Ratings (T_a=25)

V _{IN} —Input Voltage.....	-45V
T _{amb} —Operating Temperature Range.....	-20~85
T _{stg} —Storage Temperature Range.....	-55~150
T _j —Junction Temperature.....	-55~150

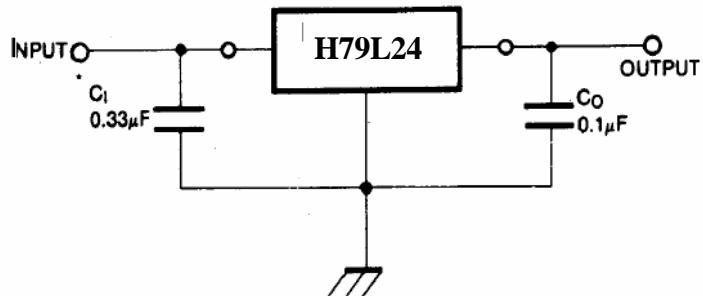
Internal Block Diagram





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H79L24**Typical Application****ELECTRICAL CHARACTERISTICS**(Unless otherwise specified, $V_{IN} = -33V$, $I_o = 40mA$, $0 \leq T_j \leq 125^\circ C$, $C_{IN} = 0.33\mu F$, $C_{OUT} = 0.1\mu F$)

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
V_o	Output Voltage	-23	-24	-25	V	$T_j = 25^\circ C$
		-22.8		-25.2		$-38V \quad V_{IN} = -27V, I_o = 40mA$
		-22.8		-25.2		$V_{IN} = -33V, I_o = 70mA$
V_o	Line Regulation		350		mV	$T_j = 25^\circ C, -38V \quad V_{IN} = -27V$
			300			$T_j = 25^\circ C, -38V \quad V_{IN} = -28V$
V_o	Load Regulation		200		mV	$T_j = 25^\circ C, 1mA \quad I_o = 100mA$
			100			$T_j = 25^\circ C, 1mA \quad I_o = 40mA$
I_q	Quiescent Current			6.5	mA	$T_j = 25^\circ C$
I_q	Quiescent Current Change		1.5		mA	$-38V \quad V_{IN} = -28V$
			0.1			$1mA \quad I_o = 40mA$
V_N	Output Noise Voltage			150	μV	$T_j = 25^\circ C, 10Hz \leq f \leq 100kHz$
RR	Ripple Rejection	31	47		dB	$T_j = 25^\circ C, -35V \leq V_{IN} \leq -29V, f = 120Hz$
V_D	Dropout Voltage		1.7		V	$T_j = 25^\circ C$