



Shantou Huashan Electronic Devices Co.,Ltd.

3-TERMINAL FIXED VOLTAGE REGULATOR

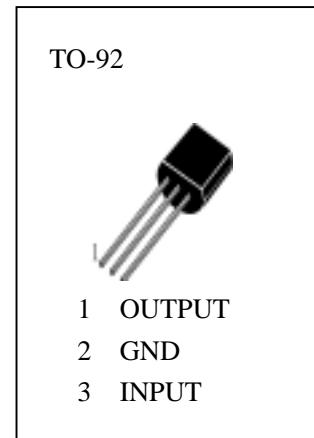
H78L18

Description

H78L18 is the three terminal positive 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



Absolute Maximum Ratings (T_a=25°C)

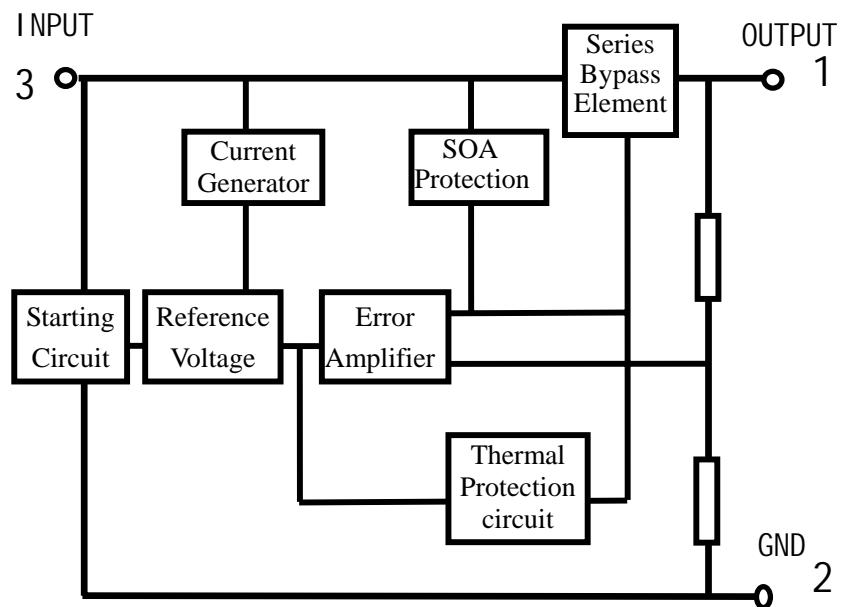
V_{IN} —— Input Voltage 35 V

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

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

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

Internal Block Diagram



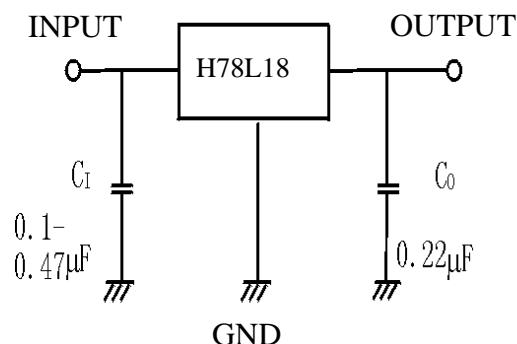


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Typical Application



ELECTRICAL CHARACTERISTICS

(Unless otherwise specified, $V_{IN}=27V$, $I_o=40mA$, $T_j=25^\circ C$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$)

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
V_o	Output Voltage	17.3	18	18.7	V	$T_j=25^\circ C$
		17.1		18.9		21V V_{IN} 33V, 1mA I_o 40mA
		17.1		18.9		21V V_{IN} V_{MAX} , 1mA I_o 70mA
V_o	Line Regulation		145	300	mV	$T_j=25^\circ C$, 21V V_{IN} 33V
			135	250		$T_j=25^\circ C$, 22V V_{IN} 33V
V_o	Load Regulation		30	170	mV	$T_j=25^\circ C$, 1mA I_o 100mA
			15	85		$T_j=25^\circ C$, 1mA I_o 40mA
I_o	Quiescent Current		2.2	6.0	mA	$T_j=25^\circ C$
I_o	Quiescent Current Change			1.5	mA	21V V_{IN} 33V,
				0.1		1mA I_o 40mA
V_N	Output Noise Voltage		150		μV	$T_j=25^\circ C$, 10Hz f 100kHz
RR	Ripple Rejection	34	48		dB	$T_j=25^\circ C$, 23V V_{IN} 33V, $f=120Hz$
V_D	Dropout Voltage		1.7		V	$T_j=25^\circ C$
V_o/T	Temperature coefficient of V_o		-1.8		mV/°C	$I_o=5mA$