

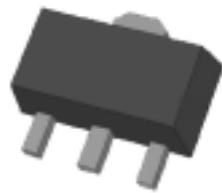


THREE TERMINAL POSITIVE VOLTAGE REGULATORS 24V FH78L24

+24V 三端稳压器 SOT-89

FEATURES

- Best Suited to Power Supply for TTL, C²-MOS
- No External Part Needed
- Built-in Thermal Protective Circuit
- Max. Output Current 100mA ($T_j=25^\circ\text{C}$)
- SOT-89 Packaged in Power Mini



1.Vout 2.Gnd 3.Vin

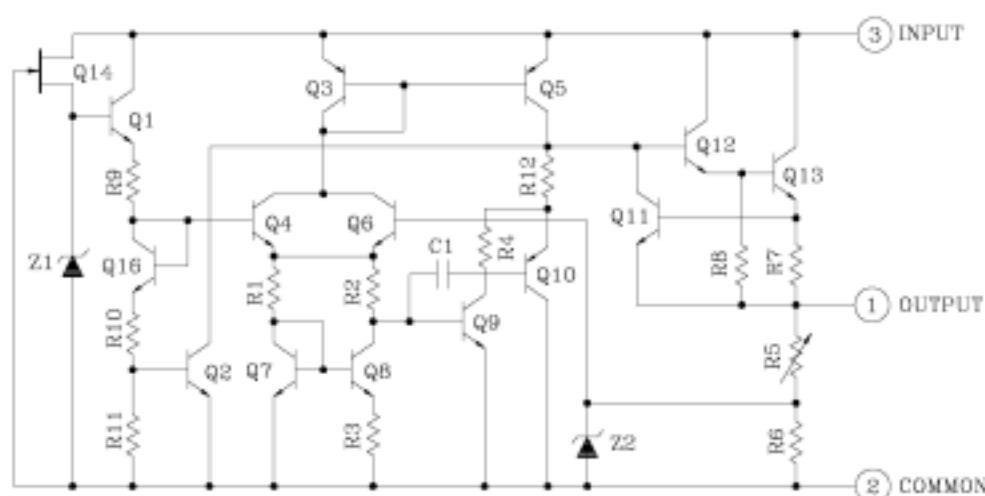
MAXIMUM RATINGS($T_a=25^\circ\text{C}$) 最大额定值

CHARACTERISTIC 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Input Voltage 输入电压	V_{IN}	40	V
Power Dissipation 耗散功率	P_D	500	mW
Operating Junction Temperature 结温	T_j	-20~120	
Operating Temperature 工作温度	T_{opr}	-20~75	
Storage temperature 储存温度	T_{stg}	-40~150	

DEVICE MARKING 打标

FH78L24 =8L

EQUIVALENT CIRCUIT 等效电路





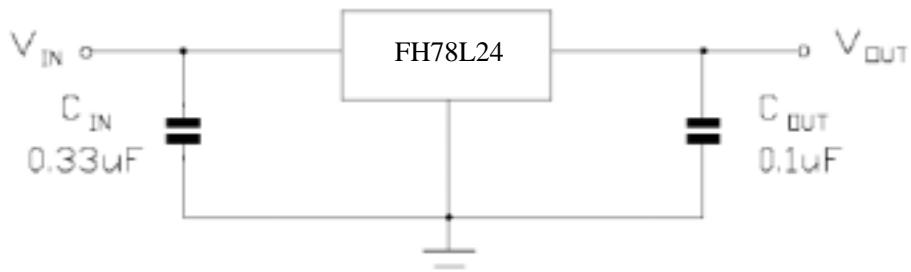
南京南山一风华高科直接授权代理
025-84712762 84712745 52188228
<http://www.nscn.com.cn>

ELECTRICAL CHARACTERISTICS 电特性

(Unless otherwise specified , $V_{IN} = 33V$, $I_{OUT} = 40mA$, $C_{IN} = 0.33\mu F$, $C_{OUT} = 0.1\mu F$, $T_j = 0$ to 125)

Characteristic 特性参数	Symbol 符号	Test Condition 测试条件		Min 最小值	Type 典型值	Max 最大值	Unit 单位
Output Voltage 输出电压	V_{OUT}	$T_j = 25$		22.8	24	25.2	V
		$27.5V \leq V_{in} \leq 38V$, $1.0mA \leq I_{out} \leq 40mA$		22.32	-	25.68	V
		$V_{in} = 33V$, $1.0mA \leq I_{out} \leq 70mA$		22.32	-	25.68	
Line Regulation 线性调整率	Reg line	$T_j = 25$	$27.5V \leq V_{in} \leq 38V$,	-	35	350	mV
			$28V \leq V_{in} \leq 38V$,	-	30	300	
Load Regulation 负载调整率	Reg load	$T_j = 25$	$1.0mA \leq I_{out} \leq 100mA$	-	40	200	mV
			$1.0mA \leq I_{out} \leq 40mA$	-	20	100	
Quiescent Current 静态电流	I_Q	$T_j = 25$	$T_j = 25$		-	3.5	6.5
			$T_j = 125$		-	-	6.0
Quiescent Current Change 静态变化电流	I_Q	$28V \leq V_{in} \leq 38V$,	$28V \leq V_{in} \leq 38V$,		-	-	mA
			$1.0mA \leq I_{out} \leq 40mA$		-	-	
Output Noise Voltage 输出噪声电压	V_{ON}	$T_a = 25$, $10Hz$ f $100KHz$			-	200	-
Ripple Rejection Ratio 纹波抑制比	RR	$f = 120Hz$ $29V V_{IN} 39V T_j = 25$			31	35	-
Dropout Voltage 压降	$V_{IN} - V_{OUT}$	$T_j = 25$			-	1.7	-

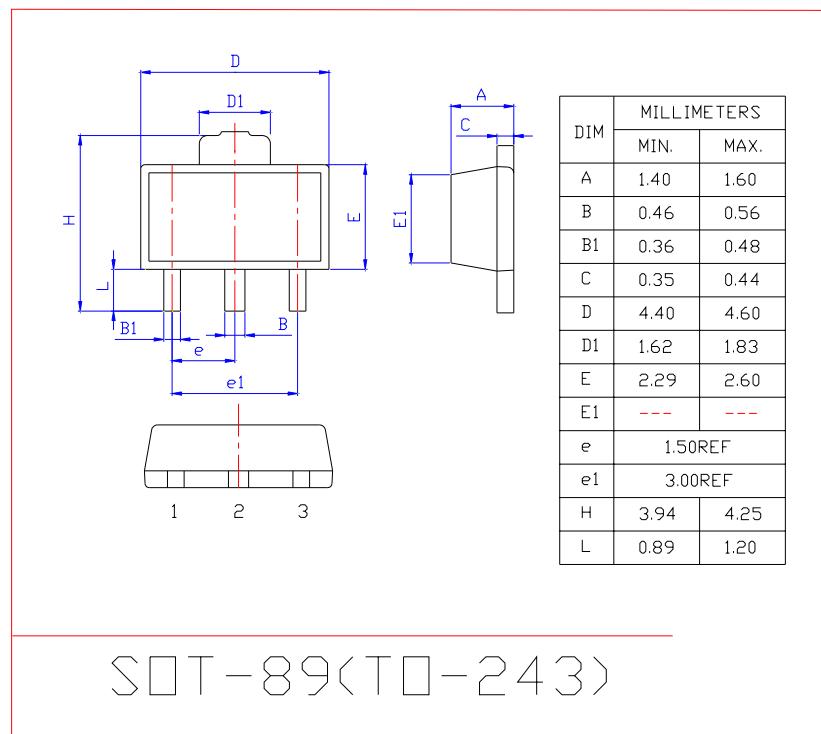
TEST CIRCUITS





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SOT-89 封装外形尺寸 (SOT-89 DIMENSION)



编带包装规格 (SOT-89 TAPE AND REEL SPECIFICATION AND PACKING SPECIFICATION)

