

**描述 / Descriptions**

TO-92 塑封封装电压调整器。  
 Voltage Regulator in a TO-92 Plastic Package.

**特征 / Features**

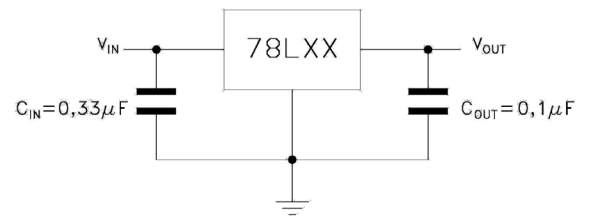
三端稳压调整器，输出电流高达 100mA, 内设过热保护和短路限制。  
 3-Terminal regulators, output current up to 100 mA, internal thermal overload protection and short-circuit limiting.

**用途 / Applications**

电压调整器。  
 Voltage Regulator.



PIN 1 : IN  
 PIN 2 : GND  
 PIN 3 : OUT

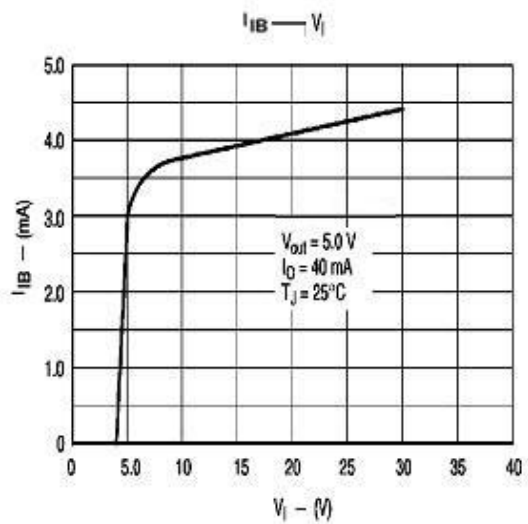
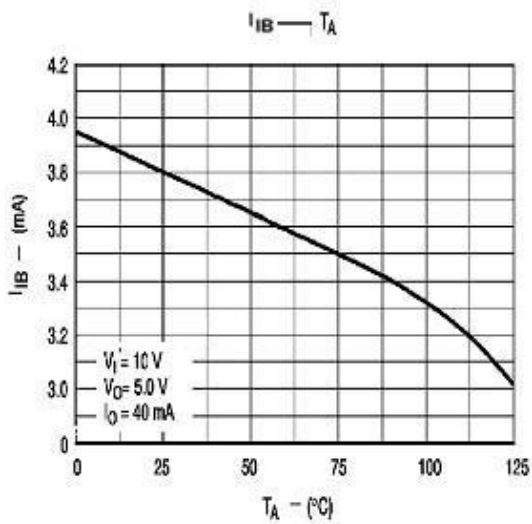
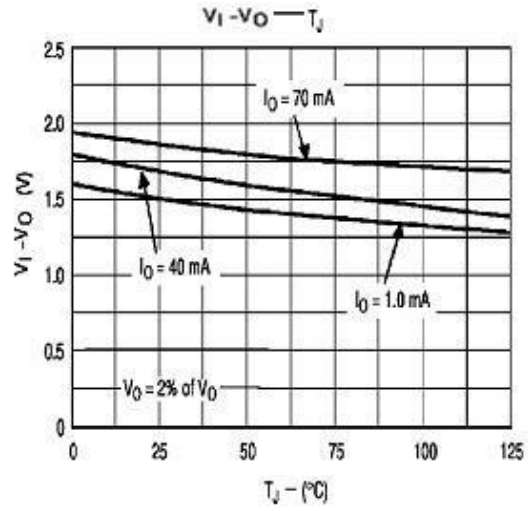
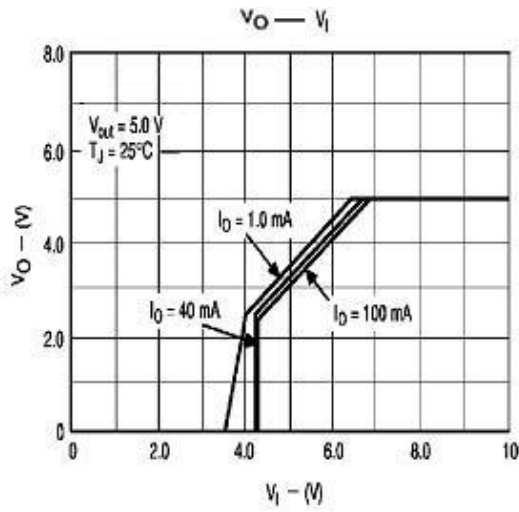

**极限参数 / Absolute Maximum Ratings (Ta=25°C)**

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Input voltage	$V_I$	30	V
Output current	$I_O$	100	mA
Operating virtual Junction temperature	$T_J$	0~125	°C
Power Dissipation	$P_D$	500	mW
Storage temperature range	$T_{stg}$	-65~150	°C

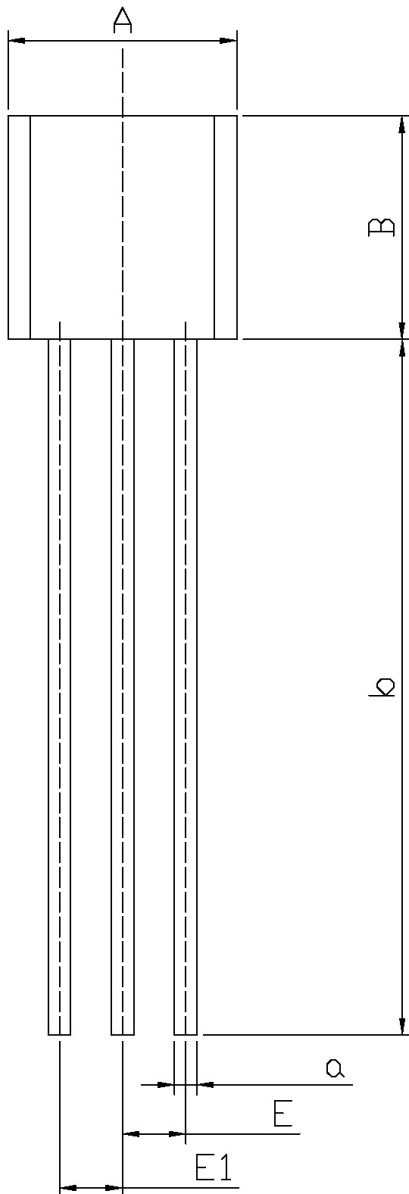
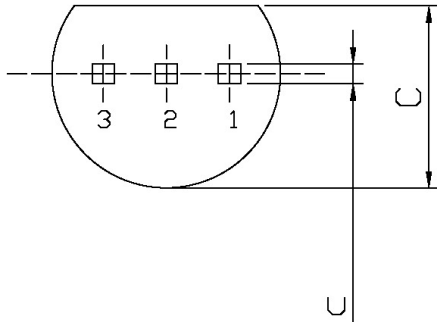
**电性能参数 / Electrical Characteristics(Ta=25°C)**

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Output voltage	V <sub>O</sub>	I <sub>o</sub> =40mA      T <sub>j</sub> =25°C	4.80	5.0	5.2	V
		I <sub>o</sub> =1mA to 40mA V <sub>I</sub> =7V to 20V	4.75	5.0	5.25	V
		I <sub>o</sub> =1mA to 70mA V <sub>I</sub> =10V	4.75	5.0	5.25	V
Input regulation	ΔV <sub>o</sub>	V <sub>I</sub> =7V to 20V      T <sub>j</sub> =25°C		32	150	mV
		V <sub>I</sub> =8V to 20V      T <sub>j</sub> =25°C		26	100	mV
Output regulation	ΔV <sub>o</sub>	I <sub>o</sub> =1mA to 100mA T <sub>j</sub> =25°C		15	60	mV
		I <sub>o</sub> =1mA to 40 mA T <sub>j</sub> =25°C		8	30	mV
Ripple rejection	RR	V <sub>I</sub> =8V to 18V      f=120Hz T <sub>j</sub> =25°C	41	49		dB
Output noise voltage	V <sub>N</sub>	f=10Hz-100KHz      T <sub>j</sub> =25°C		42		μV
Dropout voltage	V <sub>D</sub>	T <sub>j</sub> =25°C		1.7		V
Bias current	I <sub>q</sub>	T <sub>j</sub> =25°C		3.8	6	mA
		T <sub>j</sub> =125°C			5.5	mA
Bias current change	ΔI <sub>q</sub>	V <sub>I</sub> =8V to 20V			1.5	mA
		I <sub>o</sub> =1mA to 40mA			0.1	mA

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.4	4.8
B	4.3	4.7
b	13	15
a	0.40	0.60
E	1.22	1.32
E1	1.22	1.32
C	3.4	3.8
c	0.30	0.50