78LXXC

功能说明

78LXXC一款固定输出的线性三端稳压电路，具有宽的输入电压范围。内置基准电压电路、过压保护、过流保护、过温度保护，实现电路的可靠工作。输出级具有较低的输出阻抗，输出电流可达100mA。芯片具有较低的静态电流。封装采用SOT89-3L、SOT23-3L或者TO-92形式封装。

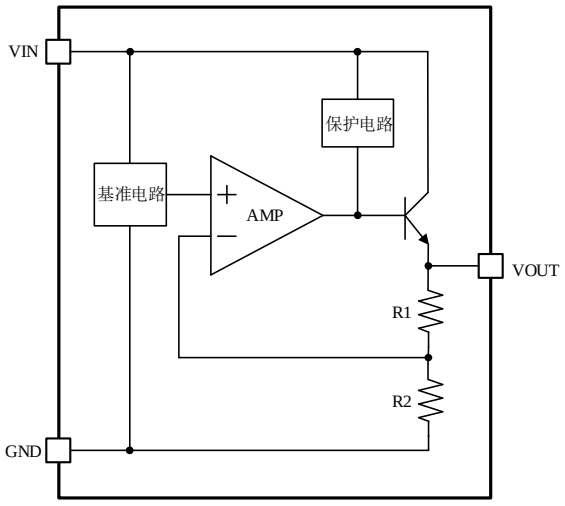
主要特性

- 采用50V工艺平台制造
- 输出电压可以是固定的3.3V，5V，6V，8V，9V ,10V ,12V ,15V,18V ,24V,33V
- 宽输入电压范围：7-35V（40V）输入
- 低静态工作电流：典型值2.3mA@10V
- 全电压、全电流、全温下输出电压冗余范围±5%。
- 稳定输出电流达100mA
- 内建过温保护、过压保护、过流保护

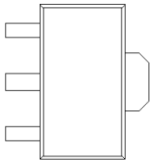
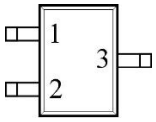
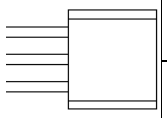
应用范围

- 仪器仪表
- 主板电源
- 多路电源系统
- 设备电源模块

内部模块图



外形及 PIN 脚

	SOT-89-3L		SOT-23-3L		TO-92
VOUT		VOUT		VOUT	
GND				GND	
VIN		IN		VIN	

极限参数

描述（Description）	符号（Symbol）		参数（Value range）	单位（Unit）
输入电压范围	V_{IN}		-0.3~35(Vout＜10V)	V
输入电压范围	V_{IN}		-0.3~40(Vout＞10V)	V
最大结温	T_J		150	℃
最大功耗	P_D	SOT89-3L	630	mW
		SOT23-3L	400	
		TO-92	630	
热阻(结到环境)	$R_{\theta JA}$	SOT89-3L	160	℃/W
		SOT23-3L	250	
		TO-92	160	
工作温度范围	T_A		-40 ~ 85	℃
存储温度范围	T_{stg}		-55~150	℃

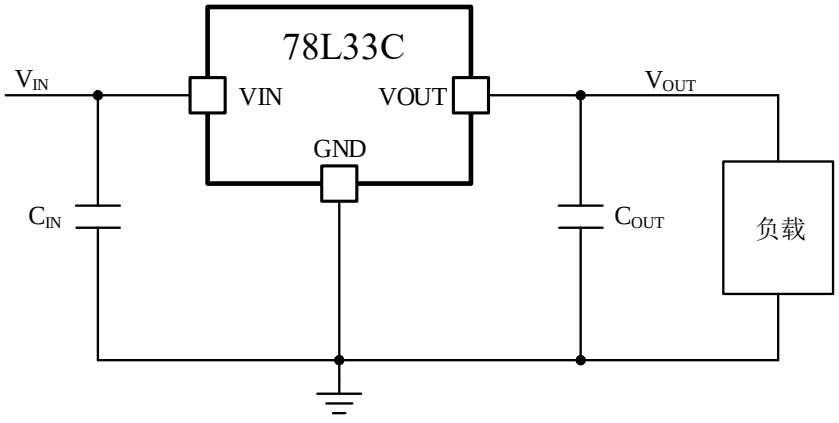
以上表格参数代表电路能够承受的极限范围。达到或者超过这个参数，电路不能正常工作，并且很大可能会损坏。并且长期工作在临界极限参数，也是会大大增加损坏的几率的。

电气参数（除特别说明外，T_J = ＋25°C）

78L33C

特性 (Characteristic)	符号 (Symbol)	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 10V,I_O = 40mA	3.2	3.3	3.4	V
		5.5V < V_{IN} < 25V 1mA < I_O < 40mA	3.168		3.432	
		1mA < I_O < 100mA	3.135		3.465	
线性调整率	ΔV_O	5.5V < V_{IN} < 25V, I_O =10mA		18	75	mV
		7V < V_{IN} < 25V, I_O =10mA		10	55	
负载调整率	ΔV_O	V_{IN}=6.5V, 1mA < I_O < 100mA		20	50	mV
		V_{IN}=6.5V,1mA < I_O < 40mA		5	30	
静态电流	I_Q	V_{IN} =6.5V,I_O = 0mA		2.3	5	mA
静态电流变化	ΔI_Q	6V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		40		μV
电源抑制比	PSRR	f=100Hz, 6V < V_{IN} < 16V	47	62		dB
峰值输出电流	I_{PK}	V_{IN} =6.5V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.4		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		5.5	6	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		36		V

典型应用



Cin=0.33uF，Cout=0.1uF

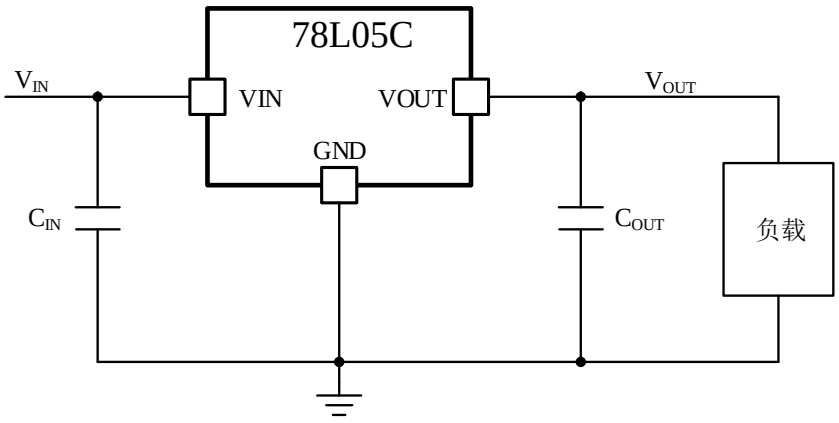
输出 3.3V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L05C

特性（Characteristic）	符号（Symbol）	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 10V,I_O = 40mA	4.85	5.0	5.15	V
		7V < V_{IN} < 25V 1mA < I_O < 40mA	4.8		5.2	
		1mA < I_O < 100mA	4.75		5.25	
线性调整率	ΔV_O	7V < V_{IN} < 25V, I_O =10mA		18	100	mV
		8V < V_{IN} < 25V, I_O =10mA		10	70	
负载调整率	ΔV_O	V_{IN}=8V, 1mA < I_O < 100mA		20	60	mV
		V_{IN}=8V,1mA < I_O < 40mA		5	30	
静态电流	I_Q	V_{IN}=7V, I_O =0mA		2.3	5	mA
静态电流变化	ΔI_Q	8V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		40		μV
电源抑制比	PSRR	f=100Hz, 8V < V_{IN} < 16V	47	62		dB
峰值输出电流	I_{PK}	V_{IN}=8V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.5		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		6.8	7	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		38		V

典型应用



Cin=0.33uF，Cout=0.1uF

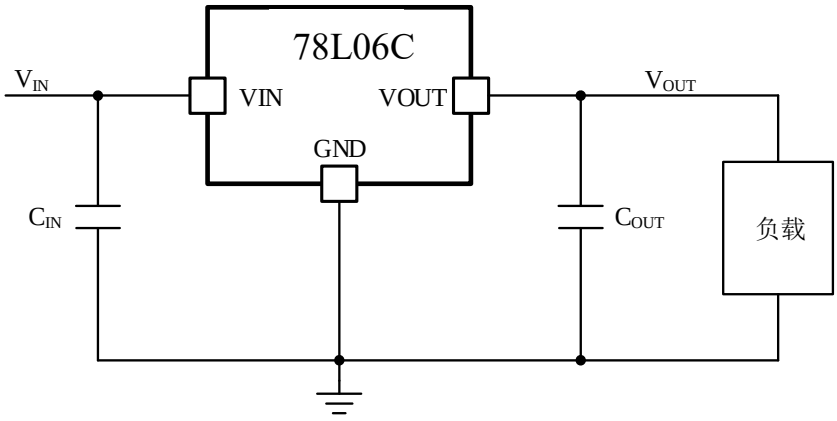
输出 5V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L06C

特性 (Characteristic)	符号 (Symbol)	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 10V,I_O = 40mA	5.82	6.0	6.18	V
		8V < V_{IN} < 25V 1mA < I_O < 40mA	5.76		6.24	
		1mA < I_O < 100mA	5.7		6.3	
线性调整率	ΔV_O	8V < V_{IN} < 25V, I_O =10mA		18	100	mV
		9V < V_{IN} < 25V, I_O =10mA		10	70	
负载调整率	ΔV_O	V_{IN}=9V, 1mA < I_O < 100mA		20	60	mV
		V_{IN}=9V,1mA < I_O < 40mA		5	30	
静态电流	I_Q	V_{IN} = 8V,I_O = 0mA		2.3	5	mA
静态电流变化	ΔI_Q	9V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		40		μV
电源抑制比	PSRR	f=100Hz, 9V < V_{IN} < 16V	47	62		dB
峰值输出电流	I_{PK}	V_{IN} =9V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.5		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		7.8	8	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		39		V

典型应用



Cin=0.33uF，Cout=0.1uF

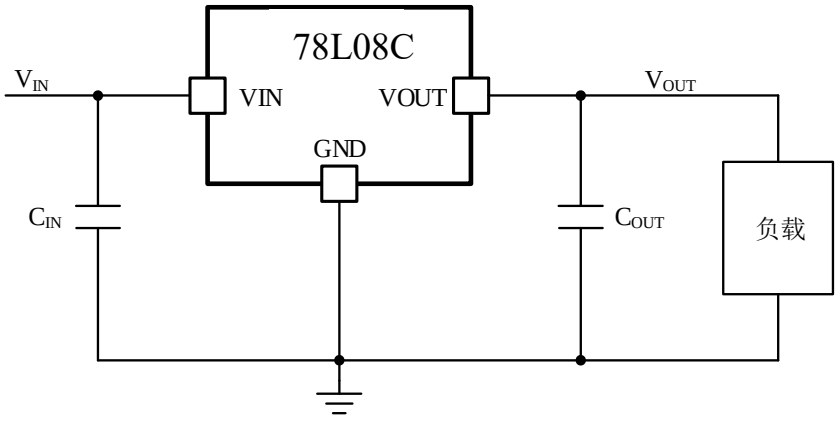
输出 6V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L08C

特性 (Characteristic)	符号 (Symbol)	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 10V,I_O = 40mA	7.766	8.0	8.24	V
		8V < V_{IN} < 25V 1mA < I_O < 40mA	7.69		8.32	
		1mA < I_O < 100mA	7.61		8.4	
线性调整率	ΔV_O	8V < V_{IN} < 25V, I_O =10mA		18	100	mV
		9V < V_{IN} < 25V, I_O =10mA		10	70	
负载调整率	ΔV_O	V_{IN}=9V, 1mA < I_O < 100mA		20	60	mV
		V_{IN}=9V,1mA < I_O < 40mA		5	18V 30	
静态电流	I_Q	V_{IN} = 8V,I_O = 0mA		2.3	5	mA
静态电流变化	ΔI_Q	9V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		40		μV
电源抑制比	PSRR	f=100Hz, 9V < V_{IN} < 16V	47	62		dB
峰值输出电流	I_{PK}	V_{IN} =9V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.5		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		7.8	8	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		39		V

典型应用



Cin=0.33uF，Cout=0.1uF

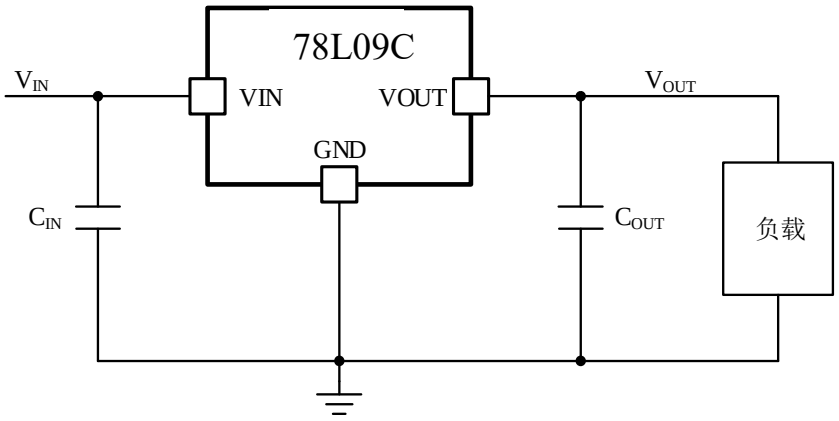
输出 8V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L09C

特性 (Characteristic)	符号 (Symbol)	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 12V,I_O = 40mA	8.73	9.0	9.27	V
		11V < V_{IN} < 25V 1mA < I_O < 40mA	8.55		9.45	
		1mA < I_O < 100mA	8.55		9.45	
线性调整率	ΔV_O	11V < V_{IN} < 25V, I_O =10mA		25	150	mV
		12V < V_{IN} < 25V, I_O =10mA		15	100	
负载调整率	ΔV_O	V_{IN}=12V, 1mA < I_O < 100mA		30	100	mV
		V_{IN}=12V,1mA < I_O < 40mA		8	50	
静态电流	I_Q	V_{IN} = 11V,I_O = 0mA		2.3	5	mA
静态电流变化	ΔI_Q	12V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		70		μV
电源抑制比	PSRR	f=100Hz, 15V < V_{IN} < 25V	40	56		dB
峰值输出电流	I_{PK}	V_{IN} = 12V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.8		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		10.8	11	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		42		V

典型应用



Cin=0.33uF，Cout=0.1uF

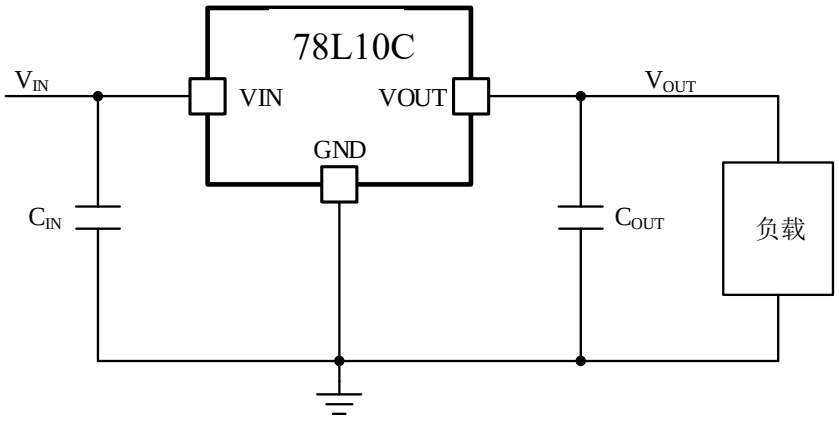
输出 9V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L10C

特性 (Characteristic)	符号 (Symbol)	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 12V,I_O = 40mA	9.70	10.0	10.3	V
		11V < V_{IN} < 25V 1mA < I_O < 40mA	9.61		10.4	
		1mA < I_O < 100mA	9.52		10.5	
线性调整率	ΔV_O	11V < V_{IN} < 25V, I_O =10mA		25	150	mV
		12V < V_{IN} < 25V, I_O =10mA		15	100	
负载调整率	ΔV_O	V_{IN}=12V, 1mA < I_O < 100mA		30	100	mV
		V_{IN}=12V,1mA < I_O < 40mA		8	50	
静态电流	I_Q	V_{IN} = 11V,I_O = 0mA		2.3	5	mA
静态电流变化	ΔI_Q	12V < V_{IN} < 25V		0.3	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		70		μV
电源抑制比	PSRR	f=100Hz, 15V < V_{IN} < 25V	40	56		dB
峰值输出电流	I_{PK}	V_{IN} = 12V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		0.8		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		10.8	11	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		42		V

典型应用



Cin=0.33uF，Cout=0.1uF

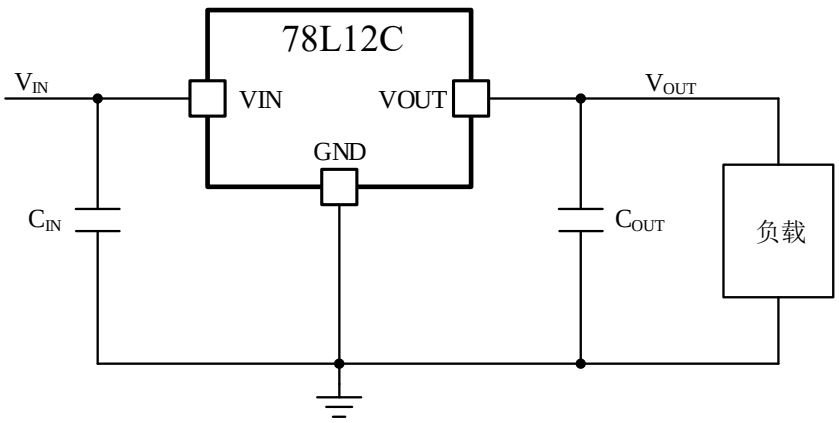
输出 10 V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L12C

特性（Characteristic）	符号（Symbol）	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 15V,I_O = 40mA	11.64	12.0	12.36	V
		14V < V_{IN} < 27V 1mA < I_O < 40mA	11.4		12.6	
		1mA < I_O < 100mA	11.4		12.6	
线性调整率	ΔV_O	14V < V_{IN} <27V, I_O =10mA		30	180	mV
		15V < V_{IN} < 27V, I_O =10mA		20	110	
负载调整率	ΔV_O	V_{IN}=15V, 1mA < I_O < 100mA		30	100	mV
		V_{IN}=15V,1mA < I_O < 40mA		10	50	
静态电流	I_Q	V_{IN} = 14V,I_O = 0mA		2.1	5	mA
静态电流变化	ΔI_Q	15V < V_{IN} < 27V		0.1	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		80		μV
电源抑制比	PSRR	f=100Hz, 15V < V_{IN} < 25V	40	54		dB
峰值输出电流	I_{PK}	V_{IN} = 15V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		1.0		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	$V_I I_O$ = 10mA		13.8	14	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		43		V

典型应用



Cin=0.33uF，Cout=0.1uF

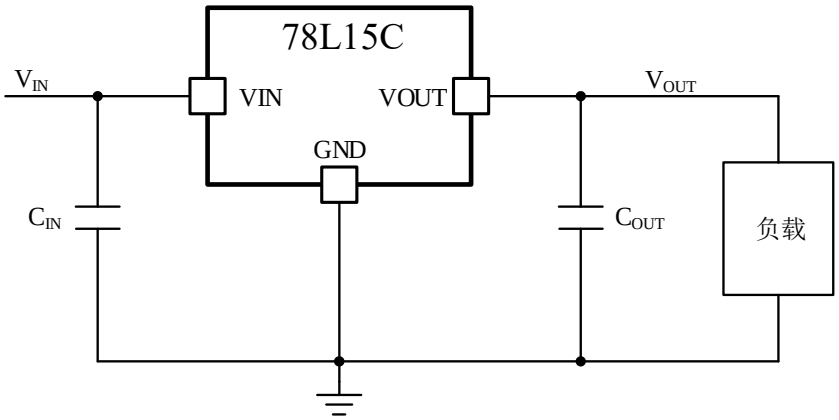
输出 12V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L15C

特性（Characteristic）	符号（Symbol）	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 18V,I_O = 40mA	14.55	15.0	15.45	V
		17V < V_{IN} < 30V 1mA < I_O < 40mA	14.4		15.6	
		1mA < I_O < 100mA	14.25		15.75	
线性调整率	ΔV_O	17V < V_{IN} <30V, I_O =10mA		50	250	mV
		18V < V_{IN} < 30V, I_O =10mA		35	180	
负载调整率	ΔV_O	V_{IN}=18V, 1mA < I_O < 100mA		30	150	mV
		V_{IN}=18V,1mA < I_O < 40mA		15	75	
静态电流	I_Q	V_{IN} = 17V,I_O = 0mA		2.1	5	mA
静态电流变化	ΔI_Q	18V < V_{IN} < 30V		0.1	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		85		μV
电源抑制比	PSRR	f=100Hz, 18V < V_{IN} < 28V	35	40		dB
峰值输出电流	I_{PK}	V_{IN} = 18V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		1.2		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		16.8	17	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		43		V

典型应用



Cin=0.33uF，Cout=0.1uF

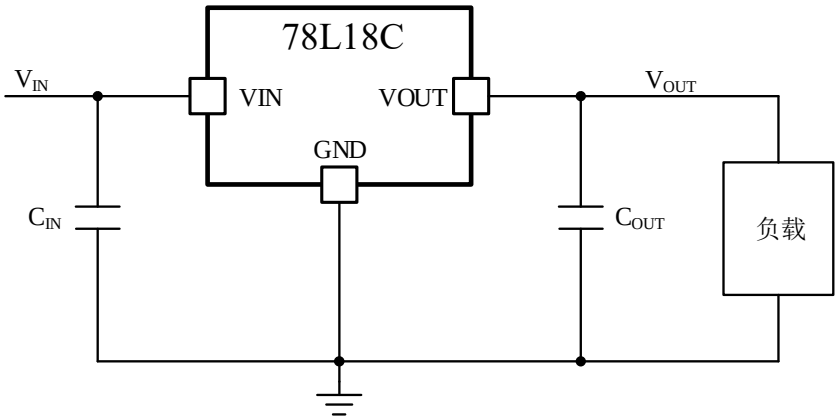
输出 15V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L18C

特性（Characteristic）	符号（Symbol）	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 18V,I_O = 40mA	17.47	18.0	18.54	V
		17V < V_{IN} < 30V 1mA < I_O < 40mA	17.30		18.72	
		1mA < I_O < 100mA	17.14		18.9	
线性调整率	ΔV_O	17V < V_{IN} <30V, I_O =10mA		50	250	mV
		18V < V_{IN} < 30V, I_O =10mA		35	180	
负载调整率	ΔV_O	V_{IN}=18V, 1mA < I_O < 100mA		30	150	mV
		V_{IN}=18V,1mA < I_O < 40mA		15	75	
静态电流	I_Q	V_{IN} = 17V,I_O = 0mA		2.1	5	mA
静态电流变化	ΔI_Q	18V < V_{IN} < 30V		0.1	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		85		μV
电源抑制比	PSRR	f=100Hz, 18V < V_{IN} < 28V	35	40		dB
峰值输出电流	I_{PK}	V_{IN} = 18V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		1.2		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		16.8	17	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		43		V

典型应用



Cin=0.33uF，Cout=0.1uF

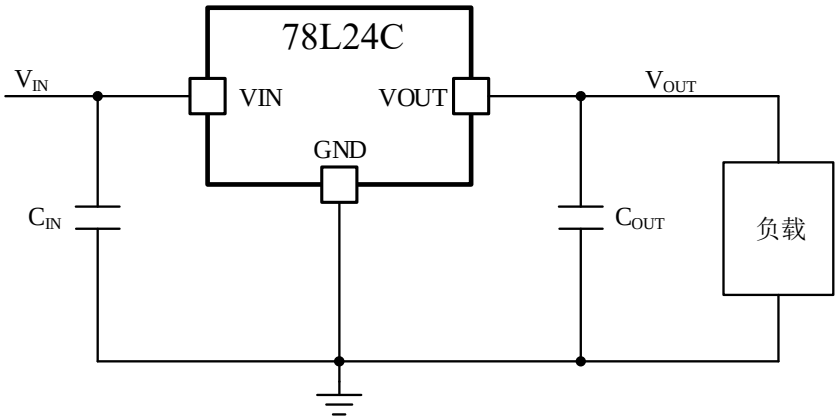
输出 18V 典型应用电路

电气参数（除特别说明外，T_J = ＋25°C）

78L24C

特性（Characteristic）	符号（Symbol）	测试条件 (Test Conditions)	最小值 (Min.)	典型值 (Typ.)	最大值 (Max.)	单位 (Units)
输出电压	V_O	V_{IN} = 18V,I_O = 40mA	23.3	24.0	24.72	V
		17V < V_{IN} < 30V 1mA < I_O < 40mA	23.07		24.96	
		1mA < I_O < 100mA	22.85		25.2	
线性调整率	ΔV_O	17V < V_{IN} <30V, I_O =10mA		50	250	mV
		18V < V_{IN} < 30V, I_O =10mA		35	180	
负载调整率	ΔV_O	V_{IN}=18V, 1mA < I_O < 100mA		30	150	mV
		V_{IN}=18V,1mA < I_O < 40mA		15	75	
静态电流	I_Q	V_{IN} = 17V,I_O = 0mA		2.1	5	mA
静态电流变化	ΔI_Q	18V < V_{IN} < 30V		0.1	1.0	mA
		1mA < I_O < 40mA			1.0	
输出噪声电压	V_n	f=10Hz to 100KHz		85		μV
电源抑制比	PSRR	f=100Hz, 18V < V_{IN} < 28V	35	40		dB
峰值输出电流	I_{PK}	V_{IN} = 18V		300		mA
电压温度系数	V_{TC}	I_O = 10mA		1.2		mV/°C
低压差	V_{Drop}	I_O = 100mA		1.75	2	V
		I_O = 200mA		1.95	2.1	
最小输入电压	$V_{IN,MIN}$	I_O = 10mA		16.8	17	V
过压保护阈值	$V_{IN,MAX}$	I_O = 10mA		43		V

典型应用



Cin=0.33uF，Cout=0.1uF

输出 24V 典型应用电路

78L05C典型特性(C_{IN}=220nF, C_{OUT}=100nF)

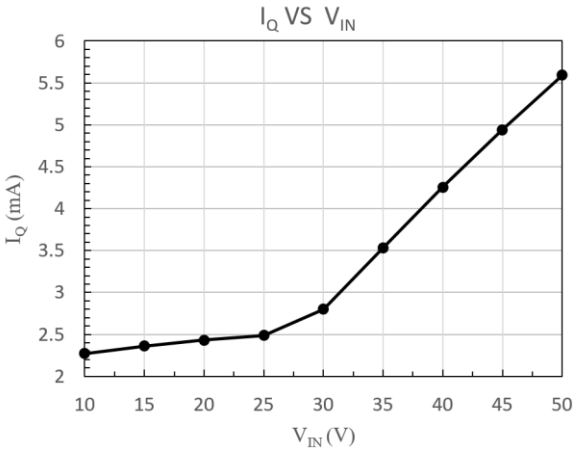


图 1 静态电流随输入电压变化

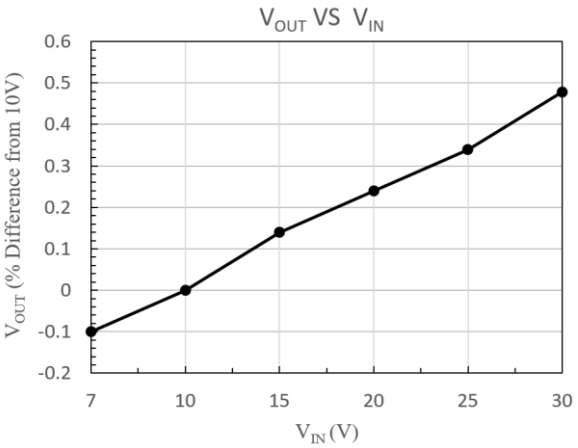


图 2 输出电压随输入电压变化(I_O=10mA)

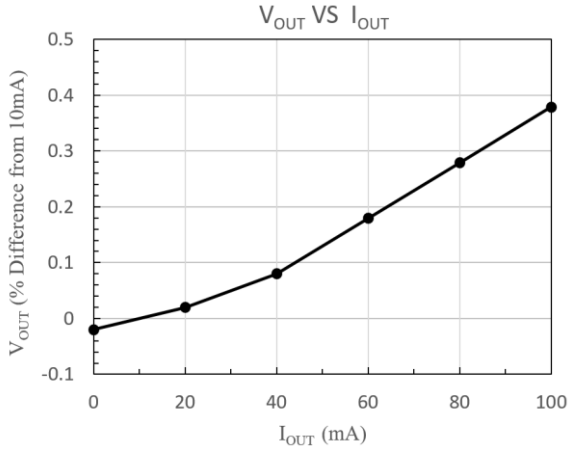


图 3 输出电压随负载电流变化(V_{IN}=8V)

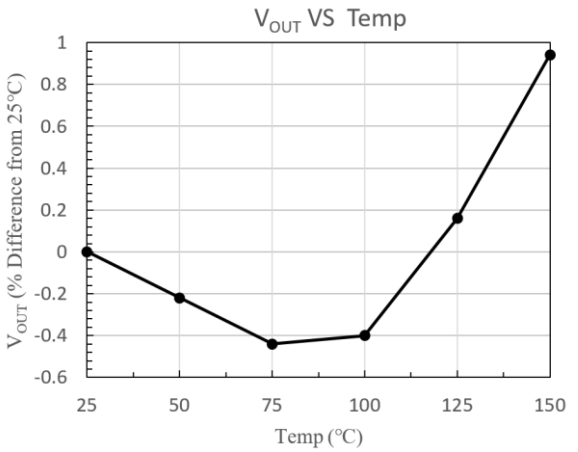
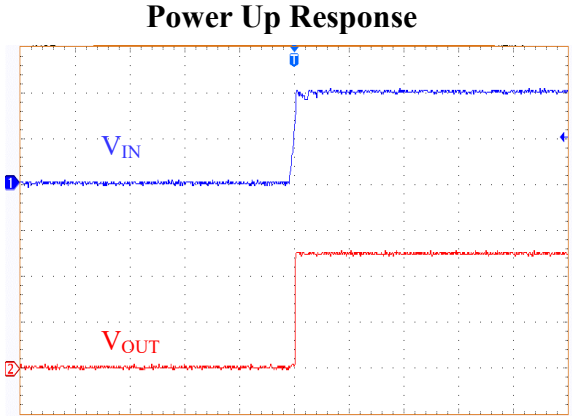


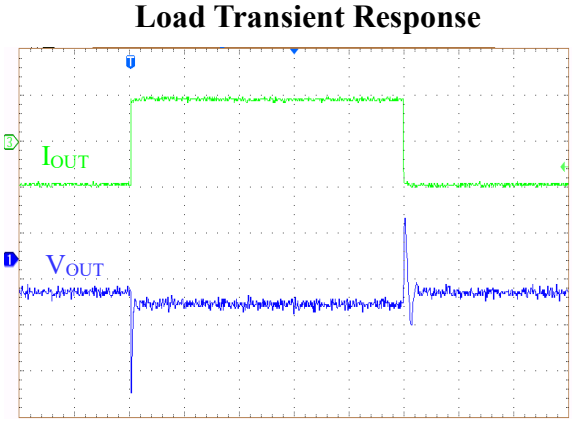
图 4 输出电压随温度变化(V_{IN}=10V, I_{OUT}=10mA)



CH1: V_{IN} (5V/DIV) CH2: V_{OUT} (2V/DIV)

I_{OUT}=10mA，V_{IN}=0V-10V 上电

图 5 电源上电瞬态响应



CH1: V_{OUT} (50mV/DIV) CH3: I_{OUT} (50mA/DIV)

V_{IN}=10V，I_{OUT}=10mA-100mA 改变

图 6 负载变化瞬态响应

78L06C典型特性(C_{IN}=220nF, C_{OUT}=100nF)

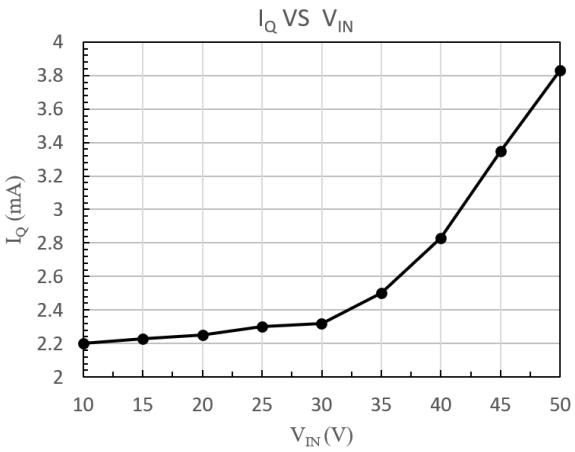


图 1 静态电流随输入电压变化

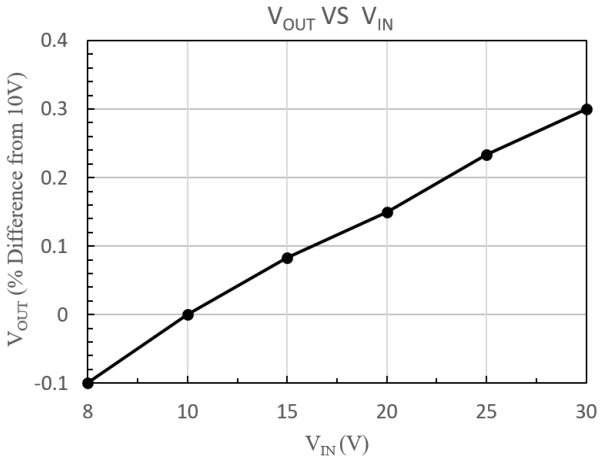


图 2 输出电压随输入电压变化(I_O=10mA)

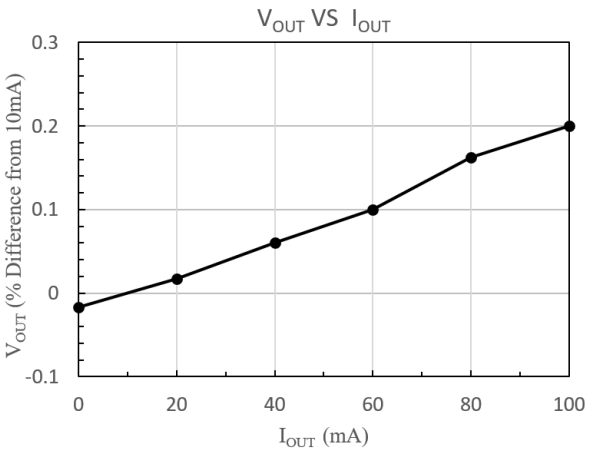


图 3 输出电压随负载电流变化(V_{IN}=9V)

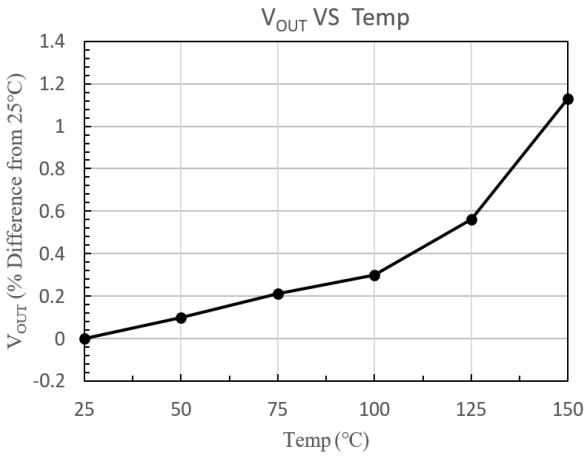


图 4 输出电压随温度变化(V_{IN}=10V, I_{OUT}=10mA)

78L09C 典型特性(C_{IN}=220nF, C_{OUT}=100nF)

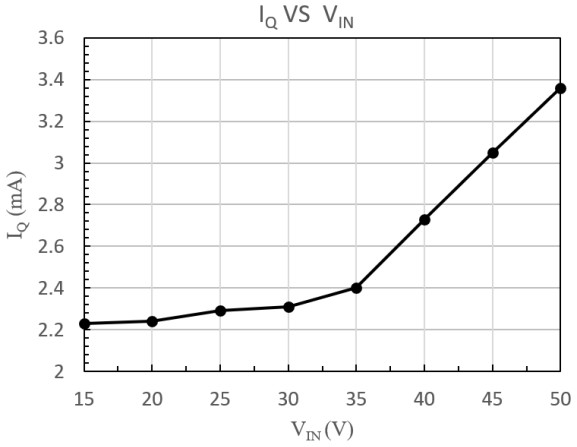


图 1 静态电流随输入电压变化

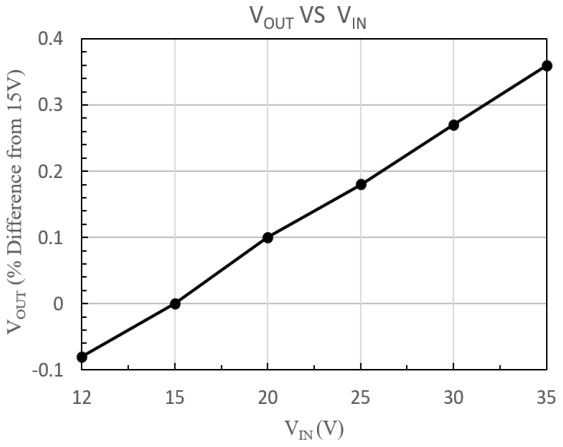


图 2 输出电压随输入电压变化(I_O=10mA)

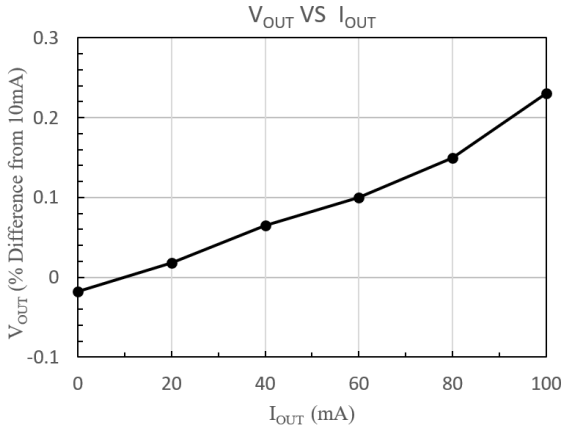


图 3 输出电压随负载电流变化(V_{IN}=12V)

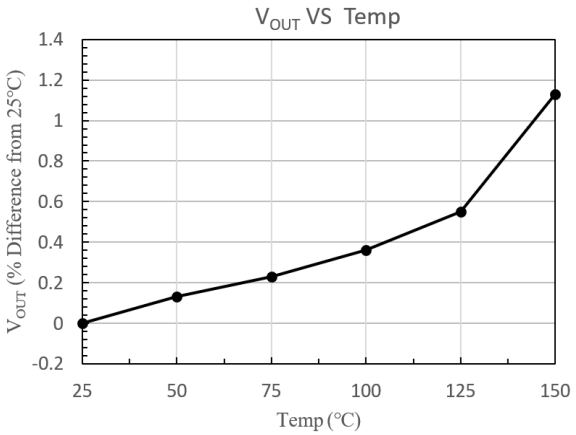


图 4 输出电压随温度变化(V_{IN}=12V, I_{OUT}=10mA)

78L12C典型特性(C_{IN}=220nF, C_{OUT}=100nF)

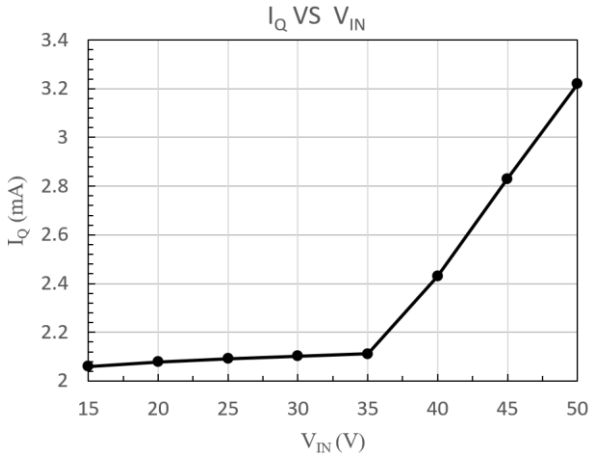


图 1 静态电流随输入电压变化

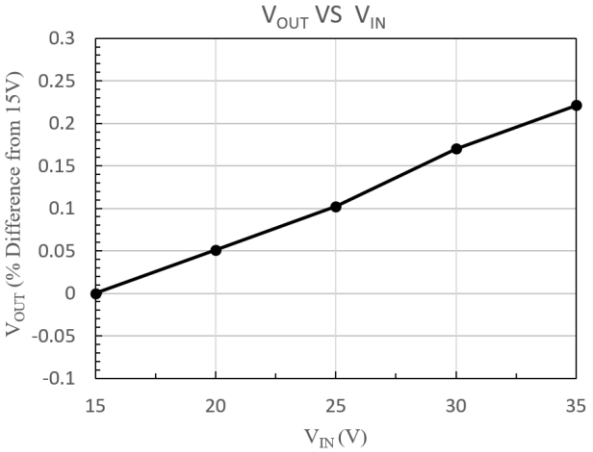


图 2 输出电压随输入电压变化(I_O=10mA)

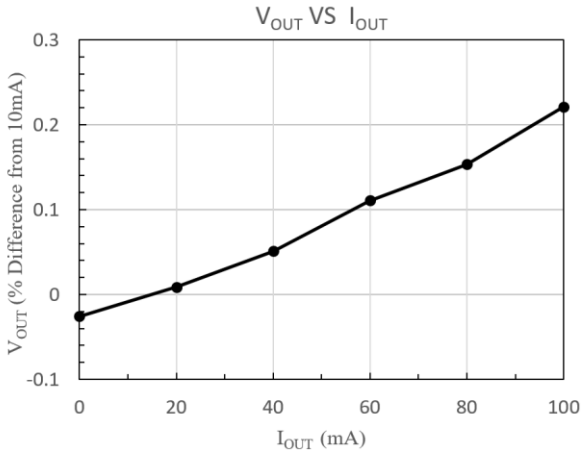


图 3 输出电压随负载电流变化(V_{IN}=15V)

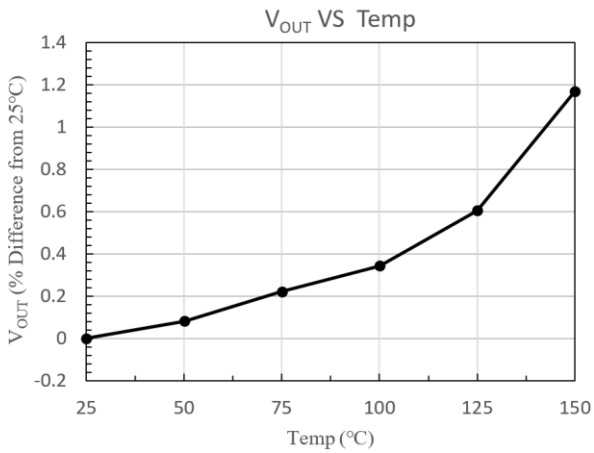
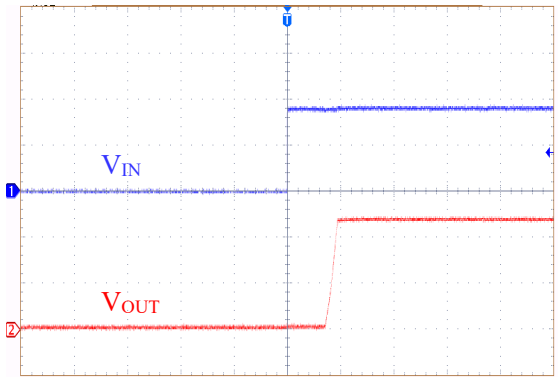


图 4 输出电压随温度变化(V_{IN}=15V, I_{OUT}=10mA)

Power Up Response

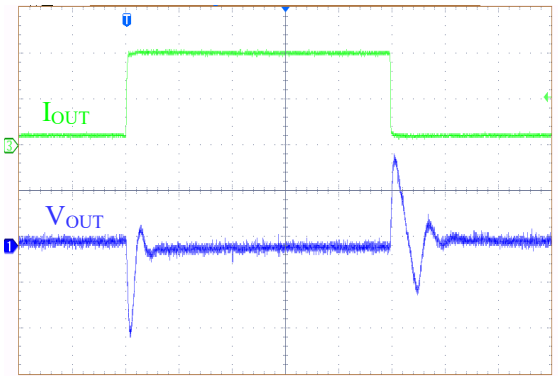


CH1: V_{IN} (10V/DIV) CH2: V_{OUT} (5V/DIV)

I_{OUT}=10mA，V_{IN}=0V-18V 上电 t:(2ms/DIV)

图 5 电源上电瞬态响应

Load Transient Response



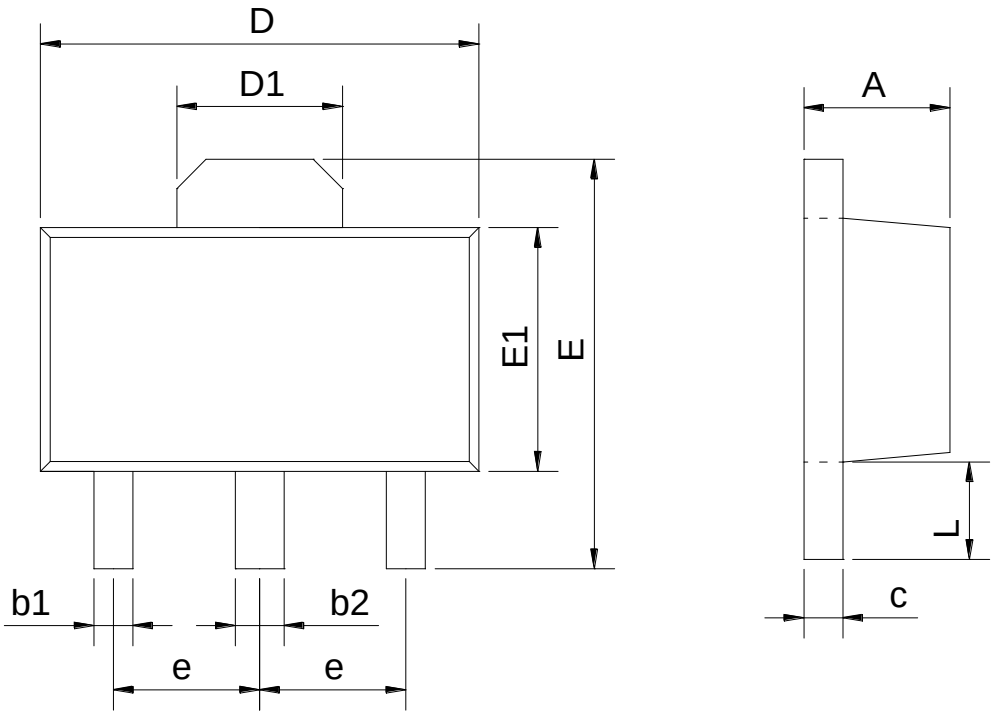
CH1: V_{OUT} (50mV/DIV) CH3: I_{OUT} (50mA/DIV)

V_{IN}=15V，I_{OUT}=10mA-100mA 改变 t:(20us/DIV)

图 6 负载变化瞬态响应

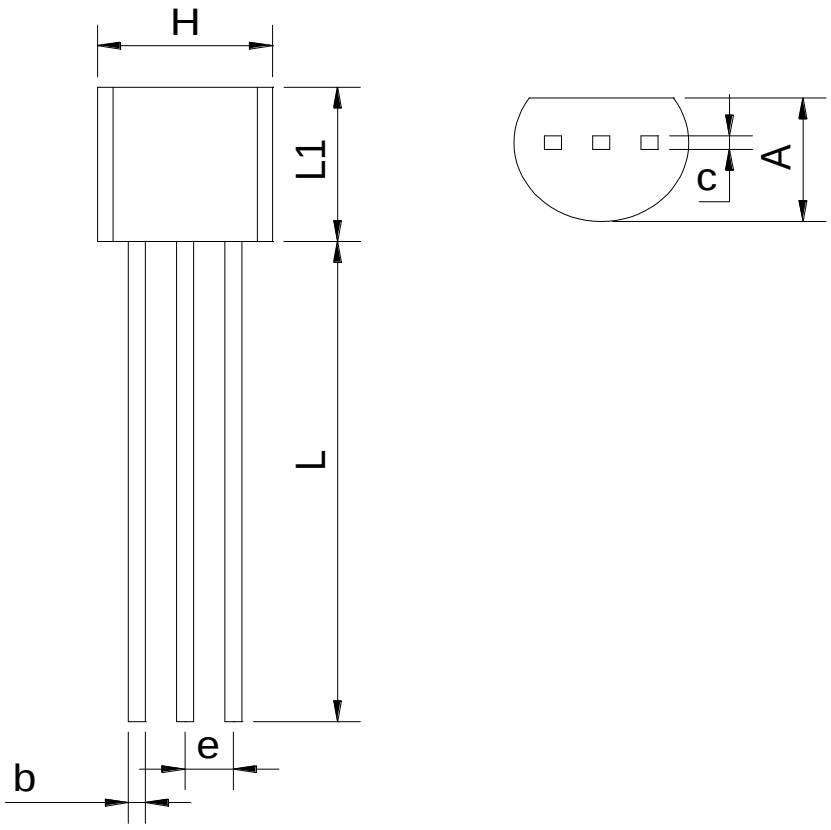
封装外形尺寸图

SOT-89-3L



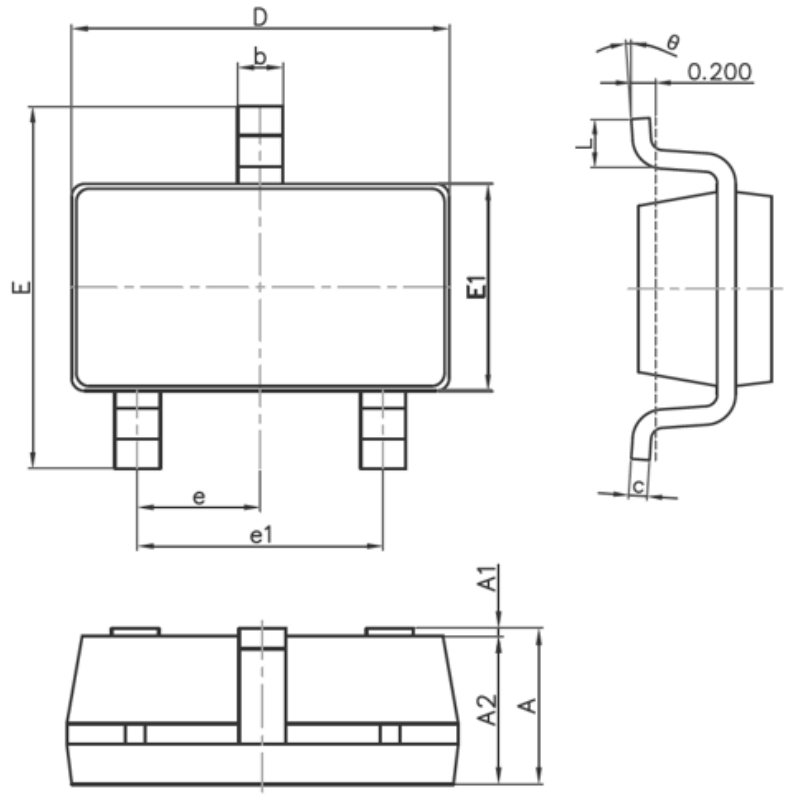
SYMBOL	mm	
	min	max
A	1.40	1.60
b1	0.32	0.52
b2	0.40	0.60
c	0.35	0.46
D	4.30	4.70
D1	1.40	1.80
E	4.00	4.40
E1	2.30	2.70
e	1.50BSC	
L	0.80	1.20

TO-92



SYMBOL	mm	
	min	max
A	3.30	3.80
b	0.38	0.55
c	0.36	0.51
e	1.27BSC	
H	4.40	4.80
L	13.00	15.00
L1	4.30	4.70

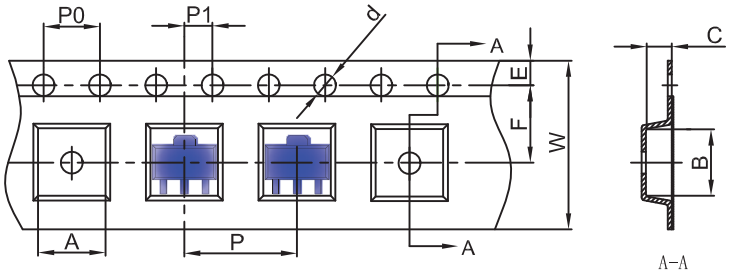
SOT-23-3L



SYMBOL	mm	
	min	max
A	1.05	1.25
A1	0.00	0.10
A2	1.05	1.15
b	0.3	0.5
c	0.1	0.2
D	2.82	3.02
E	2.65	2.95
E1	1.5	1.7
e	0.95BSC	
e1	1.8	2.0
L	0.30	0.60
θ	0	8^{o}

SOT-89-3L Tape and reel

SOT-89-3L Embossed Carrier Tape

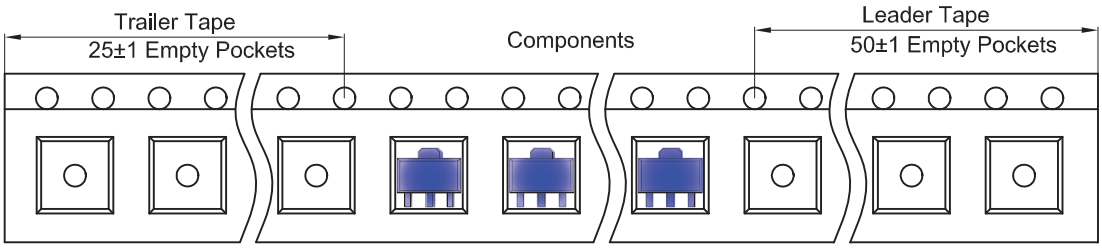


Packaging Description:

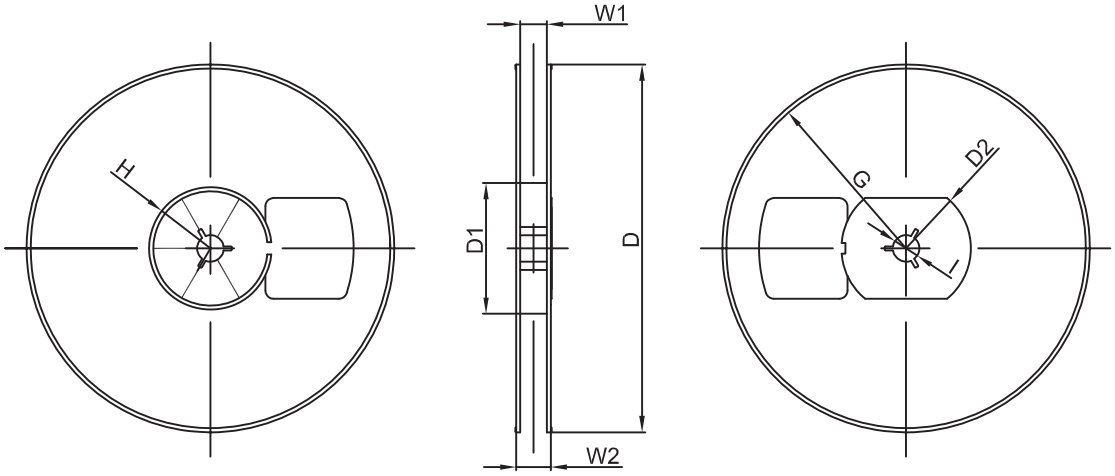
SOT-89-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 1,000 units per 7" or 18.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-89-3L	4.85	4.45	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

SOT-89-3L Tape Leader and Trailer



SOT-89-3L Reel

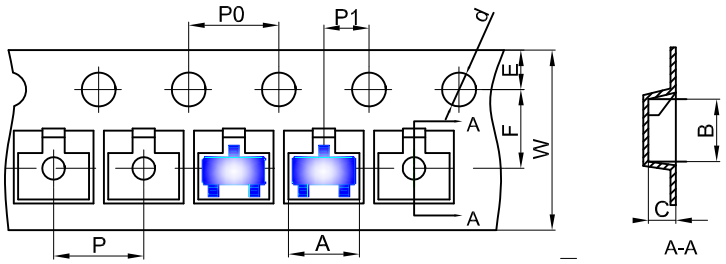


Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
1000 pcs	7 inch	10,000 pcs	203×203×195	40,000 pcs	438×438×220	

SOT-23-3L Tape and Reel

SOT-23-3L Embossed Carrier Tape

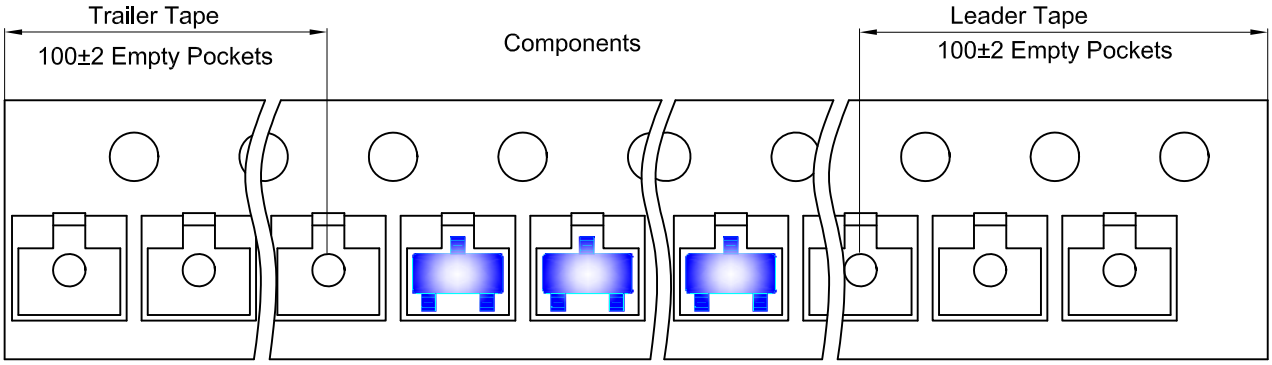


Packaging Description:

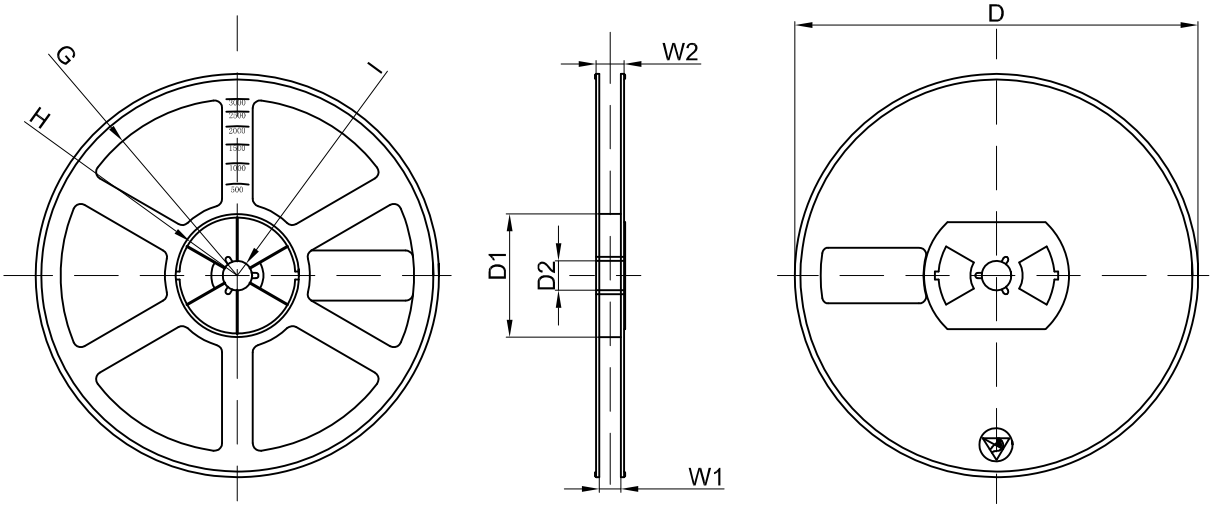
SOT-23-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 18.0cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23-3L	3.18	3.28	1.32	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23-3L Tape Leader and Trailer



SOT-23-3L Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø180.00	60.00	13.00	R78.00	R25.60	R6.50	9.50	13.10

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	