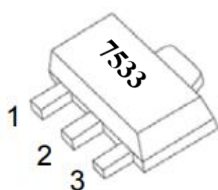


Features ➤ 采用CMOS 工艺制造 ➤ 高输入电压：30V ➤ 全电压、全电流、全温下输出电压冗余范围±2% ➤ 稳定输出电流达 150mA	Max V_{in}	V_o	ID
	30V	3.3V	150mA
	Application ➤ 电池等电源的供 电设备 ➤ 通信设备 ➤ 音频/视频设备 ➤ 安防监控设备		



Package  Marking and pin assignment	Pin No.	Name	Explication
	1	GND	系统地
	2	Vin	输入引脚
	3	Vout	输出引脚

Package Marking and Ordering Information

Device Marking	Device	Device Package	Quantity
7533	7533	SOT89-3	1000

Absolute Maximum Ratings (T_C=25℃ unless otherwise specified)

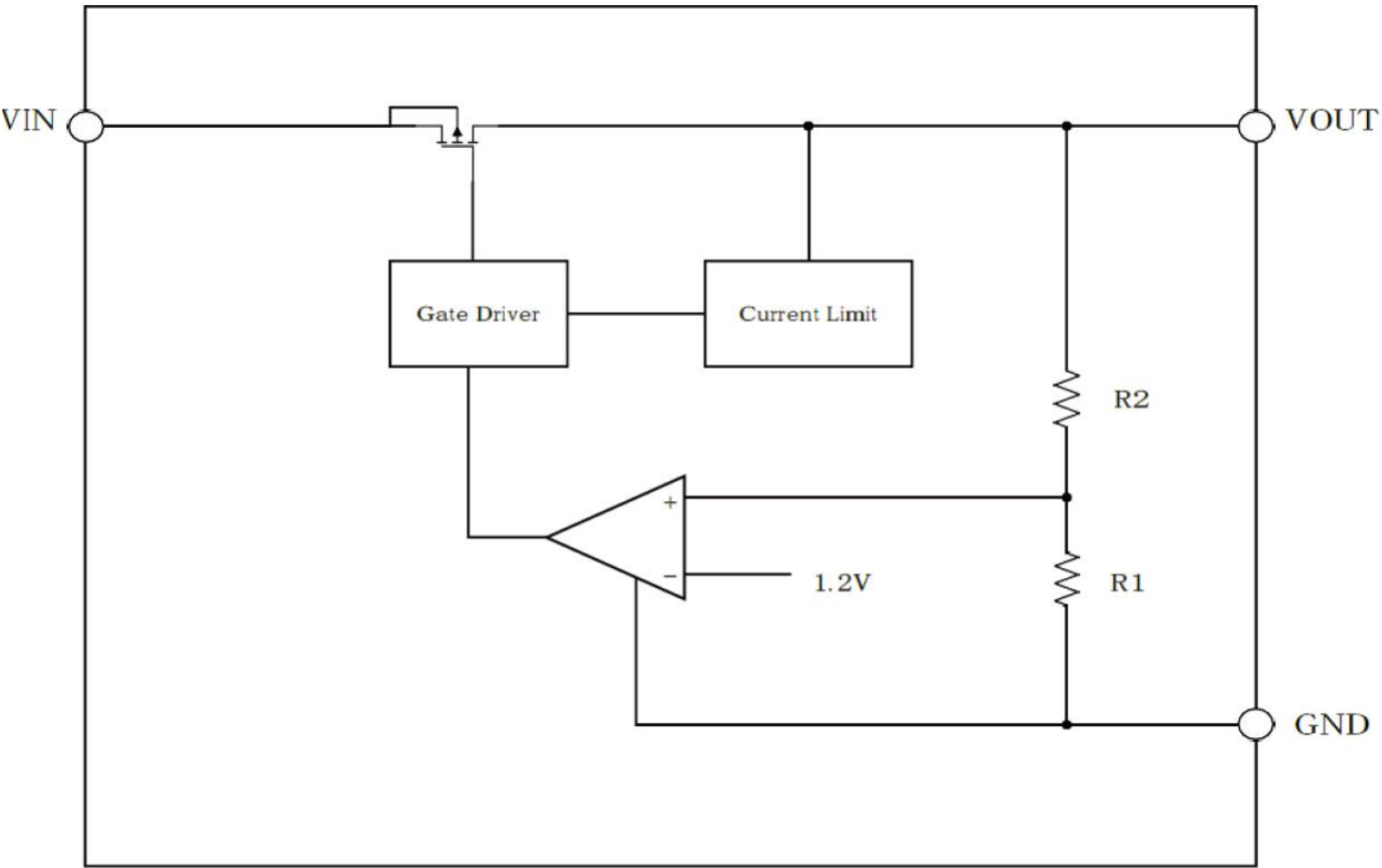
Description	Symbol	Maximum limit value	Unit
输入电压	V _{IN} -G _{ND}	30	V
输出电压	V _{out} -G _{ND}	15	V
电流	I	内部限定	mA
工作温度	T _w	-20~70	℃
存储温度	T _c	-50~125	℃
焊接温度	T _h	260	℃
人体模式	HBM	4	KV
机械模式	MM	100	V

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。

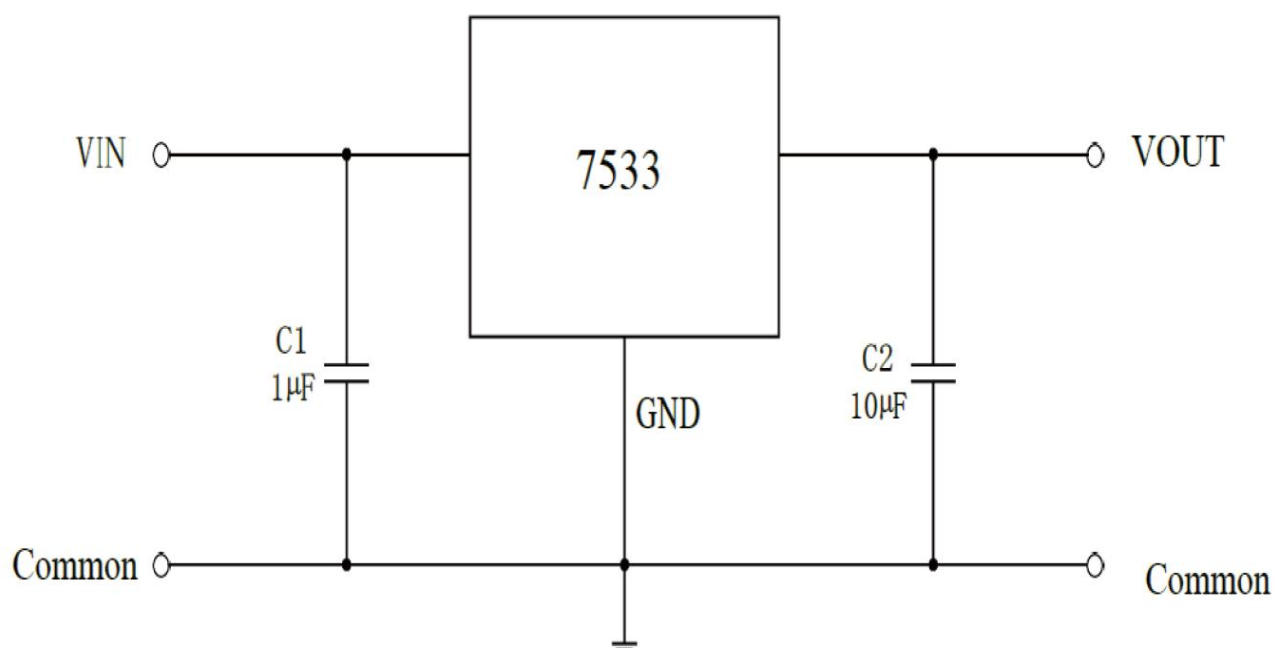
Electrical Characteristics (T_j=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
输入电压	V _{IN}	空载	3	--	24	V
静态电流	V _{GND}	VIN=12V, 空载	--	--	3	μ A
输出精度	V _o	VIN=12V, IOU _T =10mA	-2%	--	2%	V _{O_{U_T}}
输出电流	I _{O_{U_T}_MAX}	最大输出电流	--	150	--	mA
压差	Dropout Voltage	输出为 150mA	--	800	990	mV
		输出为 100mA	--	500	700	mV
负载调整率	ΔV _{O_{U_T}}	在 VIN= 10V 时，输出电流从 1mA 到 150mA	--	45	80	mV
线性调整率	ΔV _{O_{U_T} x100/ ΔV_{I_N} xV_{O_{U_T}}}	输出为 10mA 时，输入电压为 V _{O_{U_T}} +2V 到 32V 时	--	0.15	--	%/V
短路电流	I _{S_{H_{O_{R_T}}}}	输出对地短路电流	--	100	--	mA

Typical application

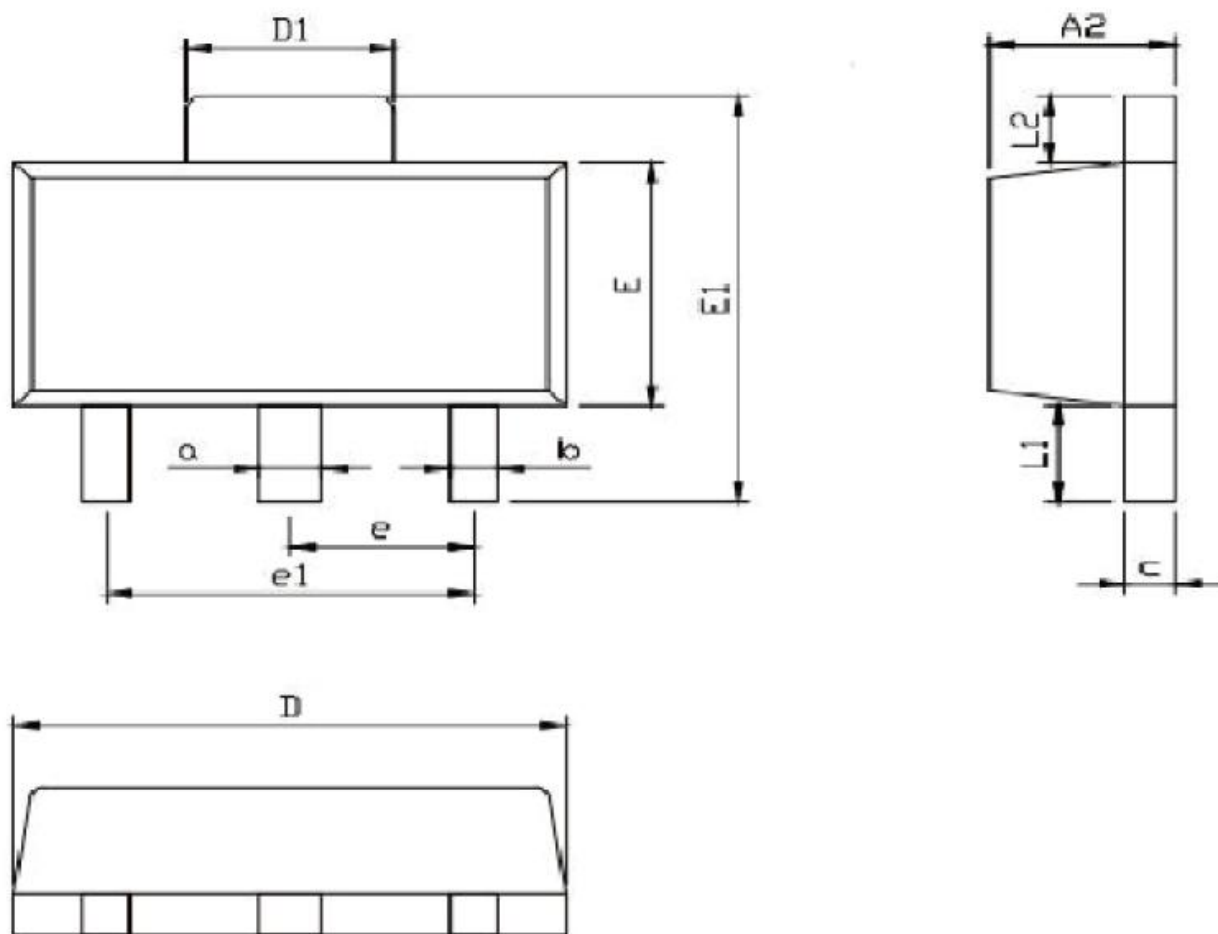


Application Circuit



Package Dimensions

SOT89-3



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A2	1.4	1.6	E	2.40	2.60
a	0.45	0.55	E1	4.00	4.30
b	0.38	0.48	e	1.00	2.00
c	0.36	0.46	e1	2.95	3.05
D	4.40	4.60	L1	0.80	1.00
D1	1.60	1.80	L2	0.65	0.75

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