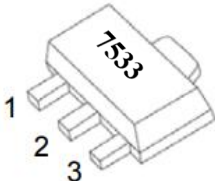


<b>Features</b> > 采用CMOS 工艺制造 > 高输入电压：30V > 全电压、全电流、全温下输出电压冗余范围±2% > 稳定输出电流达 150mA	<b>Max <math>V_{in}</math></b>	<b><math>V_o</math></b>	<b>ID</b>
	<b>30V</b>	<b>3.3V</b>	<b>150mA</b>
<b>Application</b> > 电池等电源的供 电设备 > 通信设备 > 音频/视频设备 > 安防监控设备			
<b>Package</b>    Marking and pin assignment	<b>Pin No.</b>	<b>Name</b>	<b>Explication</b>
	1	Vout	输出
	2	GND	芯片地
	3	Vin	输入

**Package Marking and Ordering Information**

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

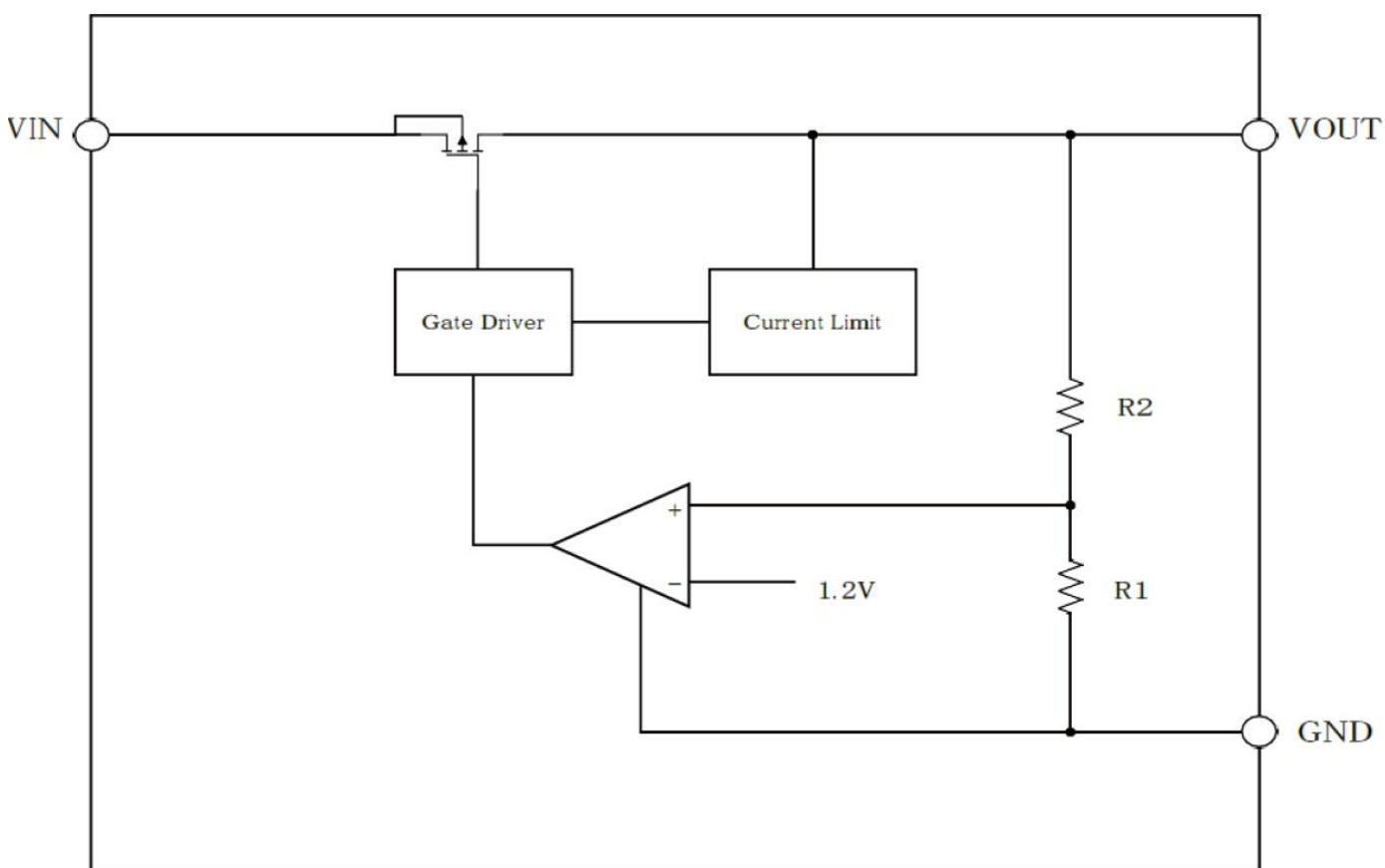
**Absolute Maximum Ratings** ( $T_C=25^{\circ}\text{C}$  unless otherwise specified)

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	$^{\circ}\text{C}$
存储温度	$T_c$	-50~125	$^{\circ}\text{C}$
焊接温度	$T_h$	260	$^{\circ}\text{C}$
人体模式	HBM	4	KV
机械模式	MM	100	V

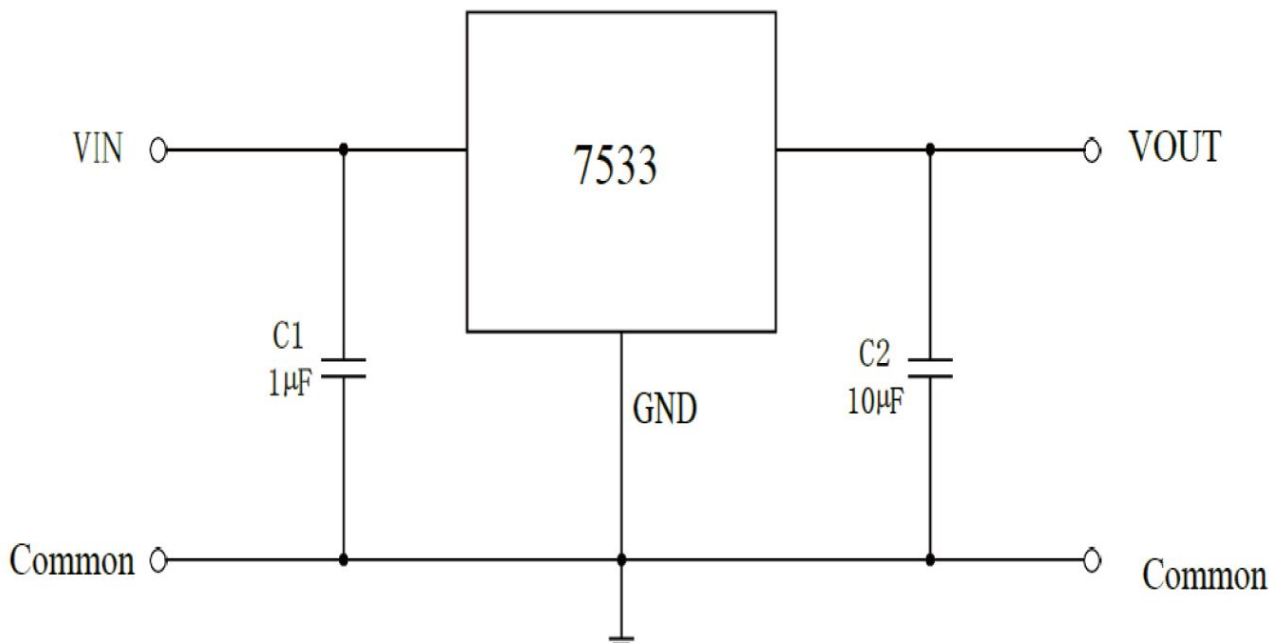
以上表格参数代表电路能够承受的极限范围。达到或者超过这个参数，电路不能正常工作，并且很大可能会损坏。并且长期工作在临界极限参数，也是会大大增加损坏的几率。

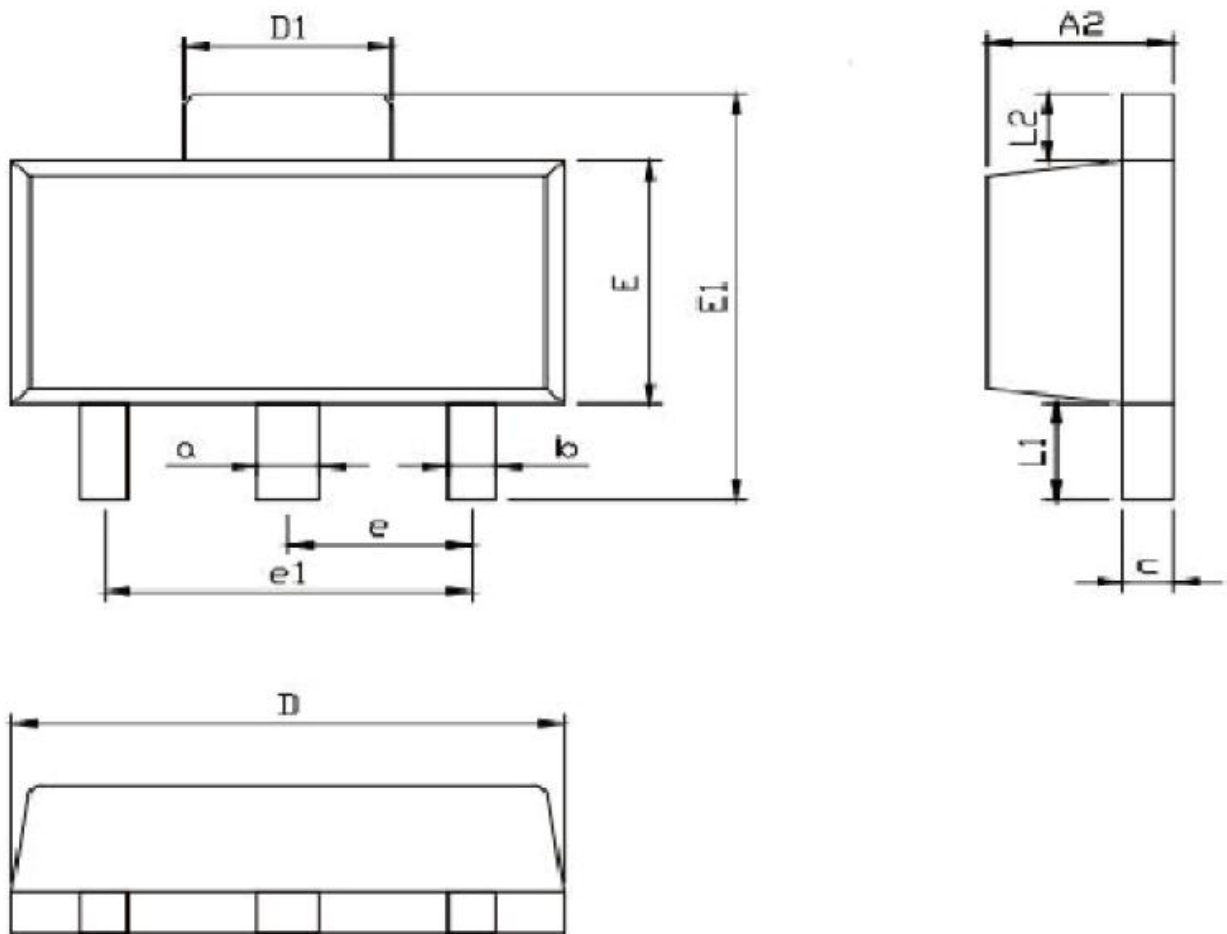
**Electrical Characteristics** ( $T_j=25^{\circ}\text{C}$  unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
输入电压	$V_{IN}$	空载	3	--	24	V
静态电流	$V_{GND}$	$V_{IN}=12\text{V}$ , 空载	--	--	3	$\mu\text{A}$
输出精度	$V_o$	$V_{IN}=12\text{V}$ , $I_{OUT}=10\text{mA}$	-2%	--	2%	$V_{OUT}$
输出电流	$I_{OUT\_MAX}$	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	$\Delta V_{OUT}$	在 $V_{IN}=10\text{V}$ 时, 输出电流从 1mA 到 150mA	--	45	80	mV
线性调整率	$\frac{\Delta V_{OUT} \times 100}{\Delta V_{IN}} \times V_{OUT}$	输出为 10mA 时, 输入电压为 $V_{OUT}+2\text{V}$ 到 32V 时	--	0.15	--	%/V
短路电流	$I_{SHORT}$	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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