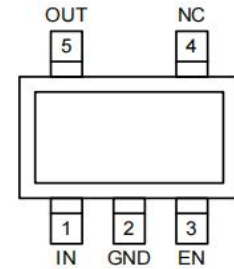
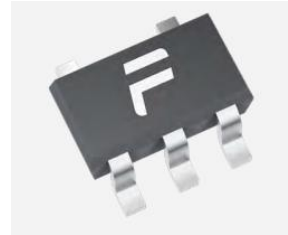


SOT-23-5L LDO 低落差稳压 IC

■Features 特点

Low Dropout 低落差



■Absolute Maximum Ratings 最大额定值

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Input Voltage 输入电压	V_{in}	-0.3~7	V
Operating Current 工作电流	I_o	500	mA
Output Voltage 输出电压	V_{out}	1.8、2.5、2.8、3.0、3.3	V
Solder Temperature 焊接温度	T_s	260	$^{\circ}\text{C}$
Solder Time 焊接时间	t	10	S
Operating Temperature 工作温度	T_A	-40~+85	$^{\circ}\text{C}$
Storage Temperature 储藏温度	T_{stg}	-55to+150 $^{\circ}\text{C}$	

■Device Marking 产品字标

FS6213-M5N-1.8V=D**

FS6213-M5N-2.5V=E**

FS6213-M5N-2.8V=F**

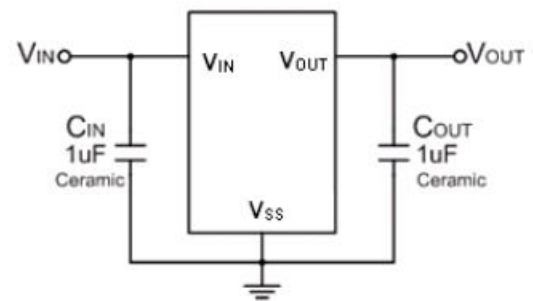
FS6213-M5N-3.0V=G**

FS6213-M5N-3.3V=H**

**为批号

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Test Circuit 测试电路

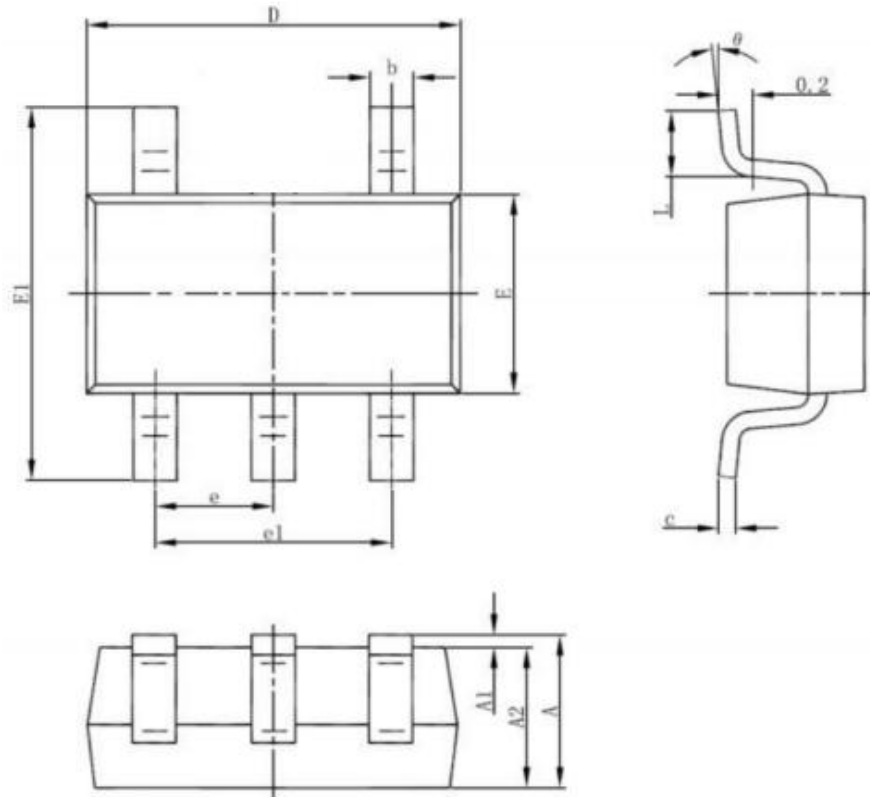


■Electrical Characteristics 电特性

(Ci=1uF Co=1uF TA=25°C unless otherwise noted 如无特殊说明)

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 _O	V _{in} =V _{out} +1V I _O =1mA		V _{out} (S) ×0.99	V _{out} (S)	V _{out} (S) ×1.01	V
Output Current 输出电流	I _O	V _I =V _{out} (S)+1V			500		mA
Dropout Voltage 落差电压	V _D	I _O =100mA I _O =300mA I _O =500mA	V _O >2.5V		50 150 250		mV
Quiescent Current 静态电流	I _q	V _I =V _{out} (S)+1V			45	75	μA
Load Regulation 负载调整	ΔV _O	V _I =V _{out} (S)+1V 1mA≤I _O ≤100mA			5		mV
Load Regulation 负载调整	ΔV _O	V _I =V _{out} (S)+1V 1mA≤I _O ≤500mA			25	50	mV
Line Regulation 线性调整	ΔV _O	I _O =10mA V _{out} (S)+1V≤V _I ≤6V			0.01	0.3	%mV
Input Voltage 输入电压	V _I			1.8		6	V
Output Current Limit 输出电流极限	I _{Limit}				700		mA
Output Noise Voltage 噪声电压	V _N	10Hz≤f≤100kHz			20V _{OUT}		μV
Ripple Rejection 纹波抑制	RR	V _I =V _{out} (S)+1V f=0.1K~100KHz, I _O =10mA			60~80		dB

■Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°