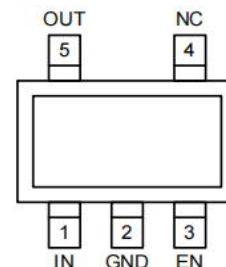


SOT-23-5L LDO 低落差稳压 IC

■ 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**

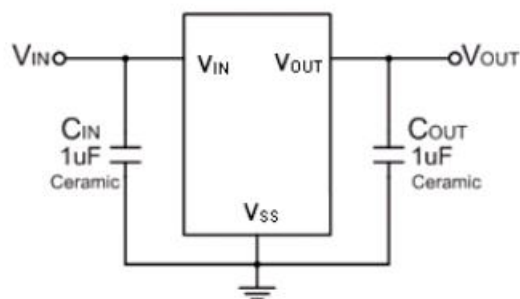
FS6213-M5N-2.8V=F**

FS6213-M5N-3.0V=G**

FS6213-M5N-3.3V=H**

**为批号

Test Circuit 测试电路

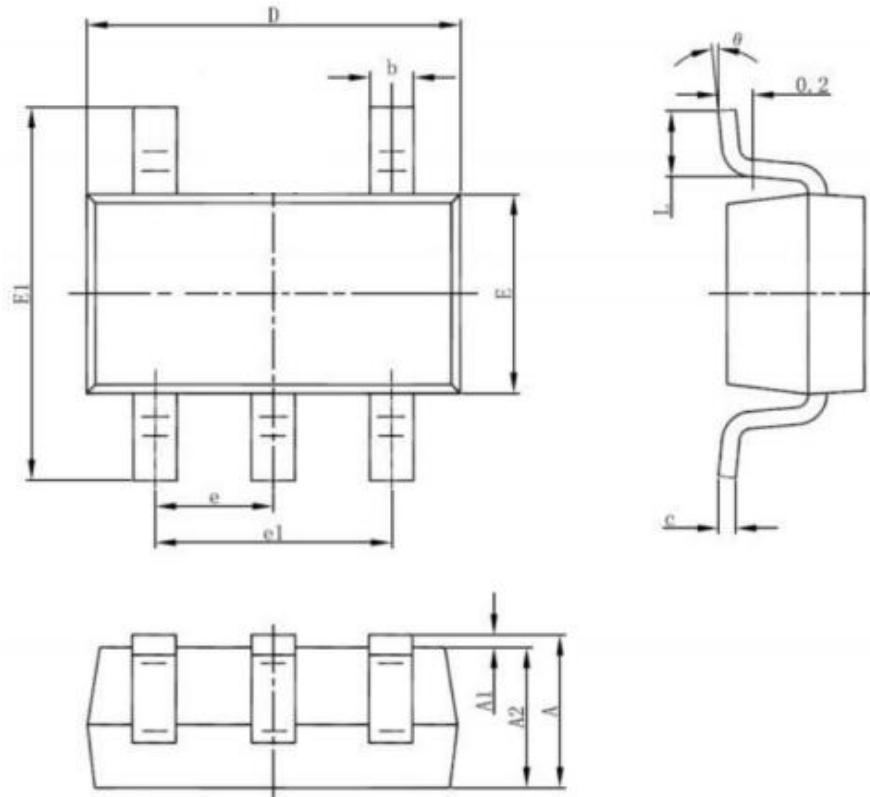


■ Electrical Characteristics 电特性

($C_i=1\mu F$ $C_o=1\mu F$ $T_A=25^\circ C$ 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	$V_{in}=V_{out}+1V$ $I_O=1mA$	$V_{out(S)}$ $\times 0.99$	$V_{out(S)}$	$V_{out(S)}$ $\times 1.01$	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	$V_I=V_{out(S)}+1V$ $1mA \leq I_O \leq 100mA$		5		mV
Load Regulation 负载调整	ΔV_O	$V_I=V_{out(S)}+1V$ $1mA \leq I_O \leq 500mA$		25	50	mV
Line Regulation 线性调整	ΔV_O	$I_O=10mA$ $V_{out(S)}+1V \leq V_I \leq 6V$		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	$10Hz \leq f \leq 100kHz$		$20V_{OUT}$		μV
Ripple Rejection 纹波抑制	RR	$V_I=V_{out(S)}+1V$ $f=0.1K \sim 100KHz,$ $I_O=10mA$		60~80		dB

■SOT-89 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°