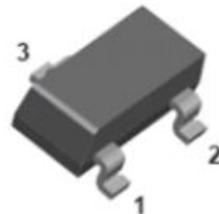


SOT-23 Three Terminal Regulator 三端稳压 IC**■Features 特点****Pin 脚位: 1.Output 输出 2.Input 输入 3.Ground 地****Output Voltage 输出电压: 8V****Output Current 输出电流: 0.1A****Power dissipation 耗散功率: 0.25W****■Absolute Maximum Ratings 最大额定值**

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Input Voltage 输入电压	V _i	35	V
Operating Current 工作电流	I _o	100	mA
Power dissipation 耗散功率	P _D	250	mW
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	500	°C/W
Solder Temperature 焊接温度/时间	T _d	260	°C
Solder Temperature/Time 焊接时间	T _d	10	s
Operating Ambient Temperature 工作温度	T _A	-40~+125	°C
Junction and Storage Temperature 结温和储藏温度	T _j , T _{stg}	-55 to +150 °C	

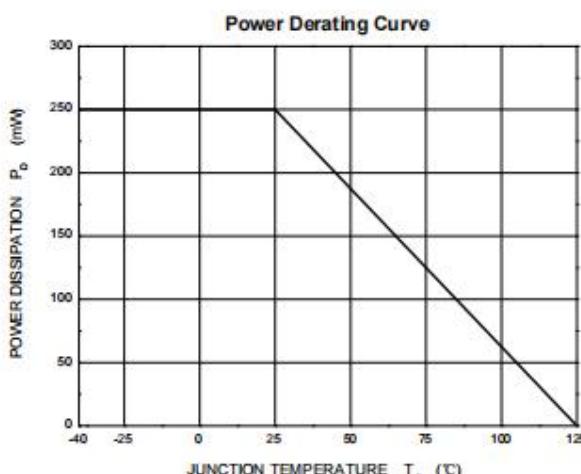
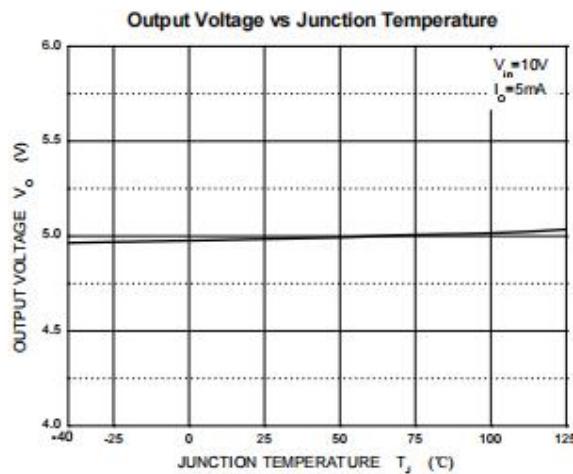
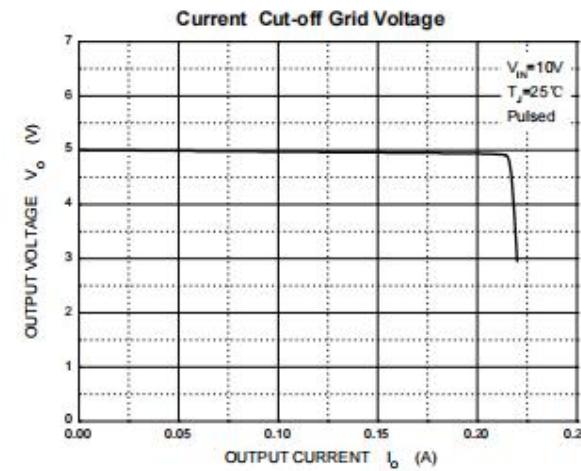
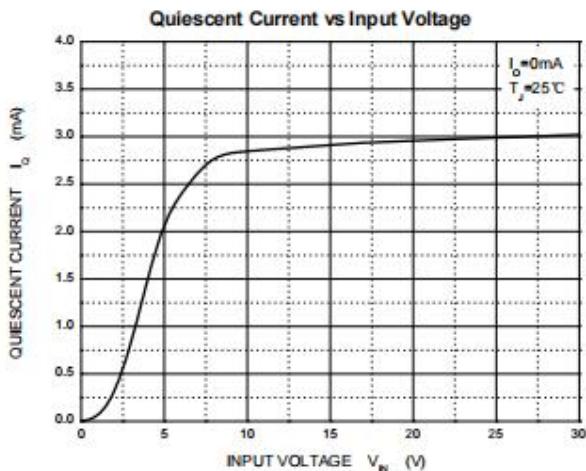
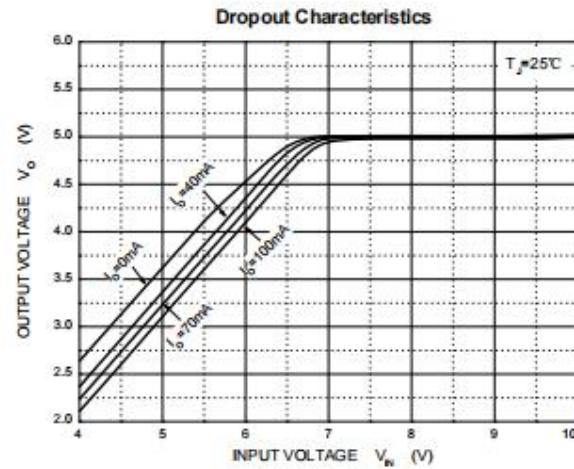
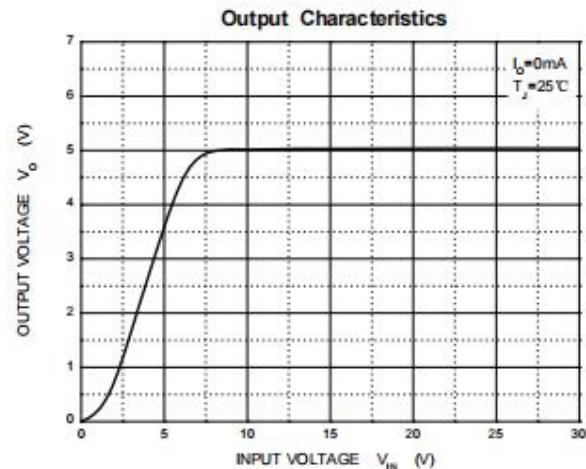
■Device Marking 产品字标**FSS78L08M=L08**

■Electrical Characteristics 电特性

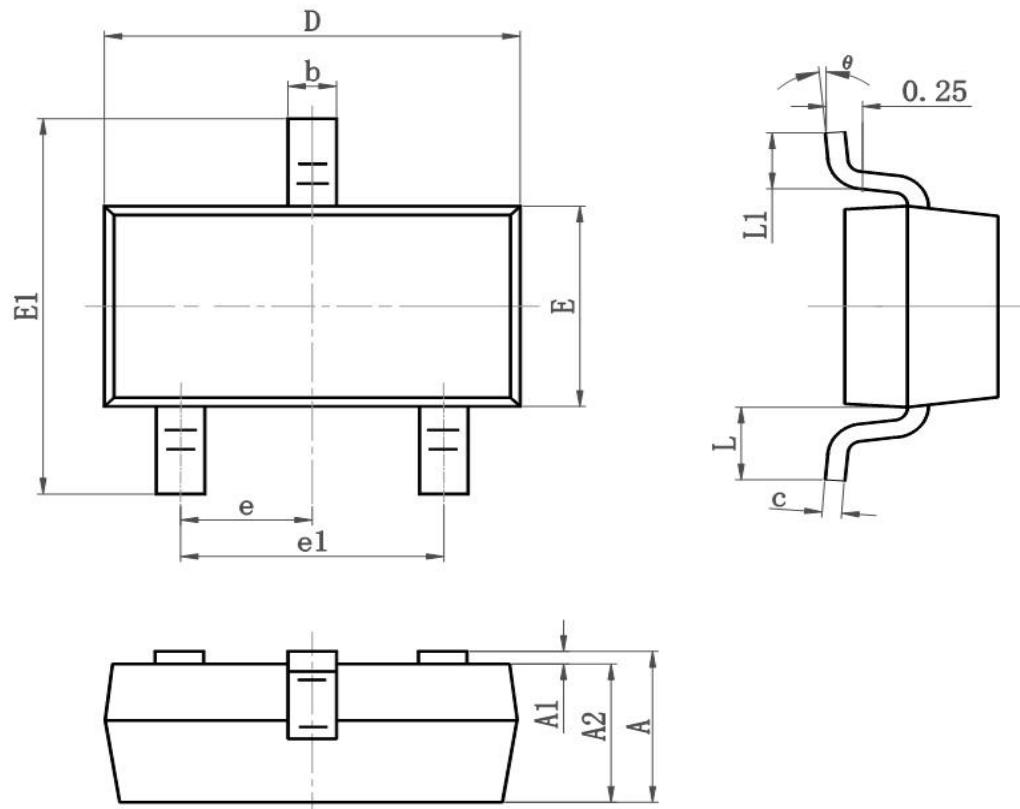
(Vi=13V Io=40mA Ci=0.33uF Co=0.1uF TA=25°C unless otherwise noted 如无特殊说明)

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	1%	VO	VI=13V IO=40mA	7.92	8	8.08	V
	2%			7.84	8	8.16	
Output Voltage 输出电压		VO	10V≤VI≤23V 1mA≤IO≤50mA	7.8		8.2	V
Output Voltage 输出电压		VO	10V≤VI≤23V 1mA≤IO≤100mA	7.6		8.4	V
Output Current 输出电流		IO	VI=13V		100		mA
Dropout Voltage 落差电压		VD	IO=40mA		1.7		V
Quiescent Current 静态电流		Iq	VI=14V IO=0		4	6	mA
Quiescent Current Change 静态电流变化		ΔIq	11V≤VI≤23V			1.5	mA
Quiescent Current Change 静态电流变化		ΔIq	1mA≤IO≤40mA			0.1	mA
Line Regulation 线性调整		ΔVO	IO=40mA 10V≤VI≤23V		42	175	mV
Line Regulation 线性调整		ΔVO	IO=40mA 11V≤VI≤23V		36	125	mV
Load Regulation 负载调整		ΔVO	1mA≤IO≤100mA VI=14V		18	80	mV
Load Regulation 负载调整		ΔVO	1mA≤IO≤40mA VI=14V		10	40	mV
Output Noise Voltage 噪声电压		VN	10Hz≤f≤100kHz		54		μV
Ripple Rejection 纹波抑制		RR	13V≤VI≤23V f=120Hz	37	46		dB

■Typical Characteristic Curve 典型特性曲线



■SOT-23 Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°