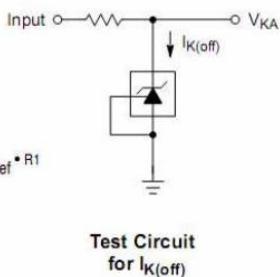
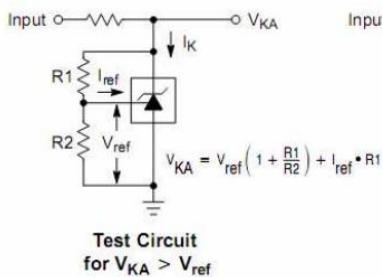
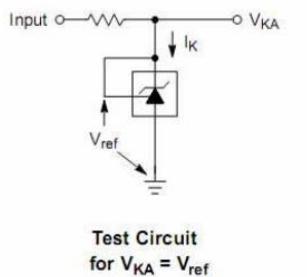


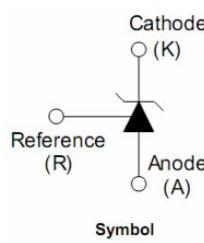
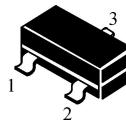
SOT-23 Low Voltage Three Terminal Adjustable Regulator 低压三端可调稳压 IC

■ Features 特点



SOT-23

1. Reference
2. Cathode
3. Anode



■ 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
Cathode to Anode Voltage 阴极到阳极电压	V_{KA}	20	V
Cathode Current Range 工作电流	I_K	100	mA
Reference Input Current Range 输入电流	I_{REF}	3	mA
Power dissipation 耗散功率	P_D	200	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\Theta JA}$	625	°C/W
Solder Temperature 焊接温度/时间	T_d	260/10	°C/S
Operating Ambient Temperature 工作温度	T_{op}	0~70	°C
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-40 to +125	°C

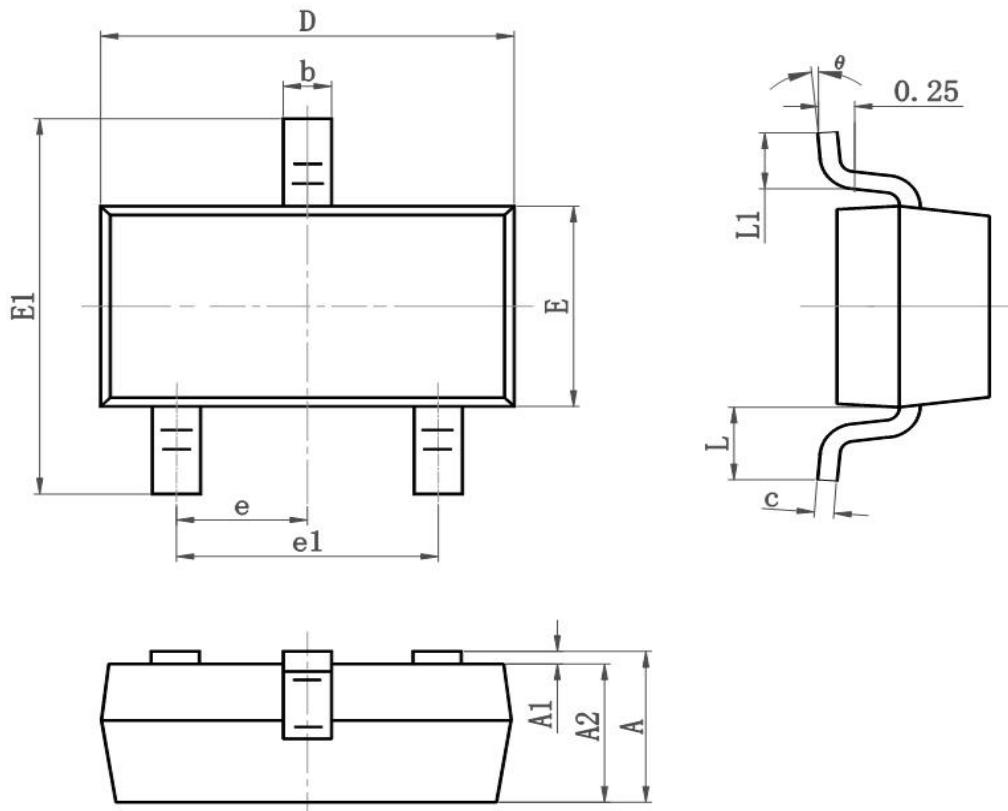
■ Device Marking 产品打标

FS432M=432

■ Electrical Characteristics 电特性(V_{KA}=V_{REF} I_{KA}=10mA T_a=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
Reference Input Voltage 基准电压	0.5%	V _{REF}	V _{KA} =V _{REF} I _{KA} =10mA	1.234	1.24	1.247	V
	1%			1.228	1.24	1.252	
Deviation of reference Input Voltage Over temperature 标准温度内基准电压偏差		ΔV _{REF} /ΔT	V _{KA} =V _{REF} I _{KA} =10mA 0 ~ 70°C		10	25	mV
Ratio of Change in Reference Input Voltage Change in Cathode Voltage 阴极电压与基准电压变化比		ΔV _{REF} /ΔV _{KA}	I _{KA} =10mA ΔV _{KA} =18V~V _{REF}		-1	-2.7	mV/V
Reference Input Current 基准电流		I _{REF}	I _{KA} =10mA R ₁ =10kΩ, R ₂ =∞		0.25	0.5	μA
Deviation of Reference Input Current Over Full Temperature Range 标准温度内基准电流偏差		ΔI _{REF} /ΔT	I _{KA} =10mA R ₁ =10kΩ, R ₂ =∞ T _A =0~70°C		0.05	0.3	μA
Minimum Cathode Current for Regulation 最小阴极电流		I _{KA(MIN)}	V _{KA} =V _{REF}		60	80	mA
Off-state Cathode Current 关闭状态阴极电流		I _{KA(OFF)}	V _{KA} =18V V _{REF} =0V		0.04	0.5	μA
Dynamic Impedance 输出阻抗		Z _{KA}	V _{KA} =V _{REF} I _{KA} =1 ~ 100mA f≤1kHz		0.2	0.4	Ω

■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°