

/ Descriptions

SOT-89 M M я Т 1 0 Ч я н

Low dropout linear regulator in a SOT-89 Plastic Package.

/ Features

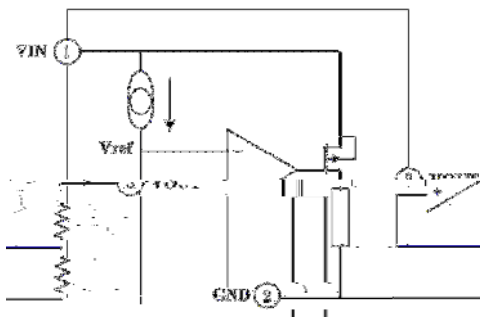
Low power consumption, Low voltage drop, Small temperature drift coefficient, High input voltage up to 30V, The static current 2.5PA, The output voltage accuracy: $\pm 2\%$, Qualified to AEC-Q100 Standards for High Reliability, HF Product.

/ Applications

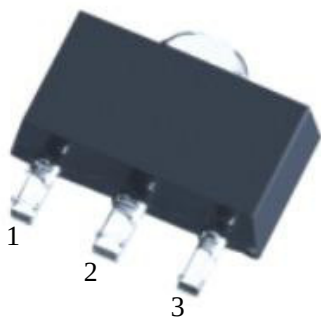
For use in power equipment, Communication equipment, Audio and video equipment, Meet the stringent requirements of automotive applications.

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/ Equivalent Circuit



/ Pinning



PIN1 $\times$ VIN

PIN 2 $\times$ GND

PIN 3 $\times$ VOUT

/ Marking

See Marking Instructions.



Parameter	Symbol	Rating	Unit
Working Voltage	V_{IN}	-0.3~33	V
Thermal Resistance	$R_{\theta JA}$	200	/W
Power Consumption	P_W	500	mW
Storage Temperature	T_{STG}	-50~+125	
Working Temperature	T_A	-40~+85	

Notes: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If the device to work long hours under the condition of absolute maximum limit, its stability may be affected.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
The Output Voltage	V_{OUT}	$V_{IN}=7.0V, I_{OUT}=10mA$	4.90	5.00	5.10	V
The Output Current	I_{OUT}	$V_{IN}=7.0V$	200			mA
Load Regulation	V_{OUT}	$V_{IN}=7.0V$ $1mA \leq I_{OUT} \leq 150mA$		25	60	mV
Low Dropout	V_{DIF}					

/ Electrical Characteristic Curve

图 3 输入电压和输出电压 / The input voltage and output voltage

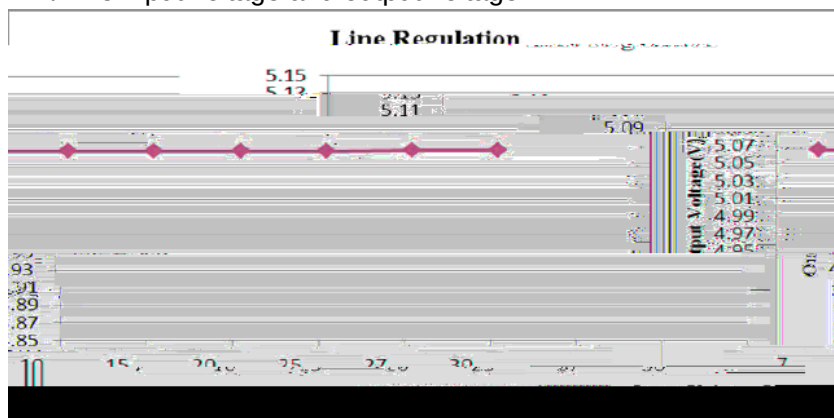


图 4 输出电压和负载电流 / The output voltage and load current
 $I_{OUT}=10mA$



图 5 输出电压和温度 / The output voltage and temperature
 $V_{IN}=7.0V$

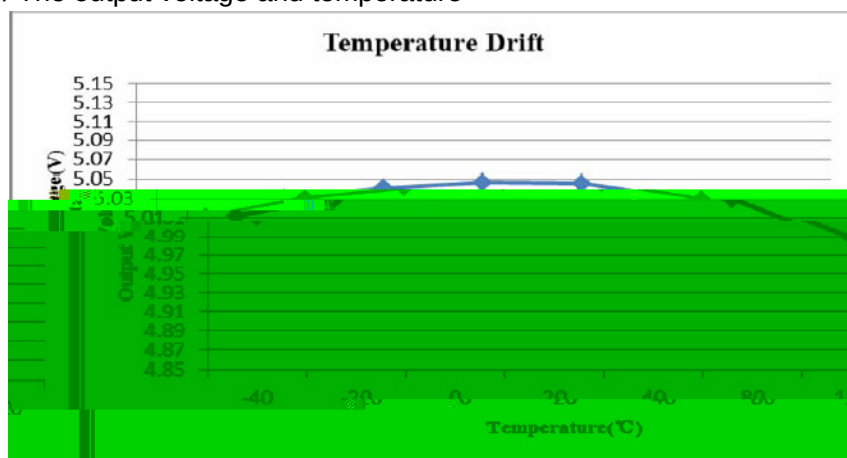
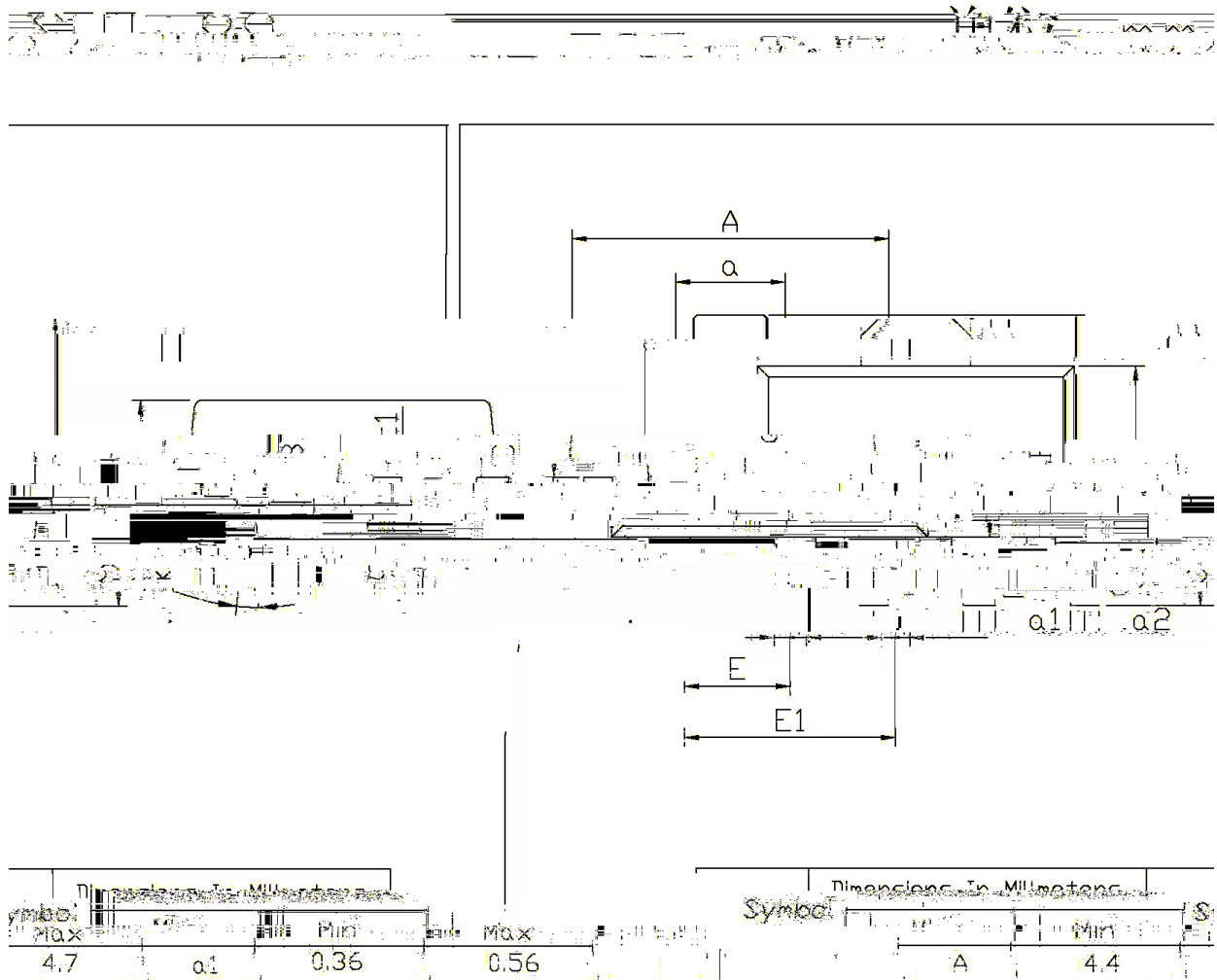


图 6 输出电压和负载电流 / The output voltage and load current
 $V_{IN}=7.0V$, $I_{OUT}=10mA$

/ Package Dimensions



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蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET