/ Descriptions

SOT-89 ĶĶĿ я Ţ ɨ ó Ч я н

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

/ Features

ă ı я Ţ ı □ ў Ч ɰ Ѯ ņ ı ѫ ђ ϡ ɔ я ˡ ѓ 30V ı ˝ õ ɔ Ш 2.5ҎA ı ђ ɔ я ч ў χ ° 2 (ı ч ᵀ AEC-Q100 ‰ ѫ ˡ ˛ ó ļ ∂ ı ņ ғ β

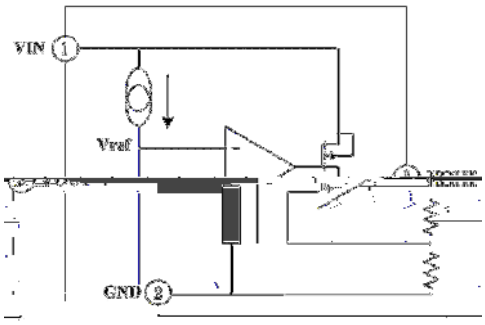
Low power consumption,Low voltage drop,Small temperature drift coefficient,High input voltage up to 30V,The static current 2.5ҎA,The output voltage accuracy: ° 2%,Qualified to AEC-Q100 Standards for High Reliability, HF Product.

/ Applications

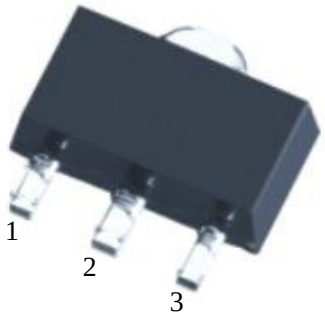
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For use in power equipment,Communication equipment,Audio and video equipment, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ VIN PIN 2 χ GND PIN 3 χ VOUT

/ Marking

ð м Ч ب ˝ / See Marking Instructions.

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

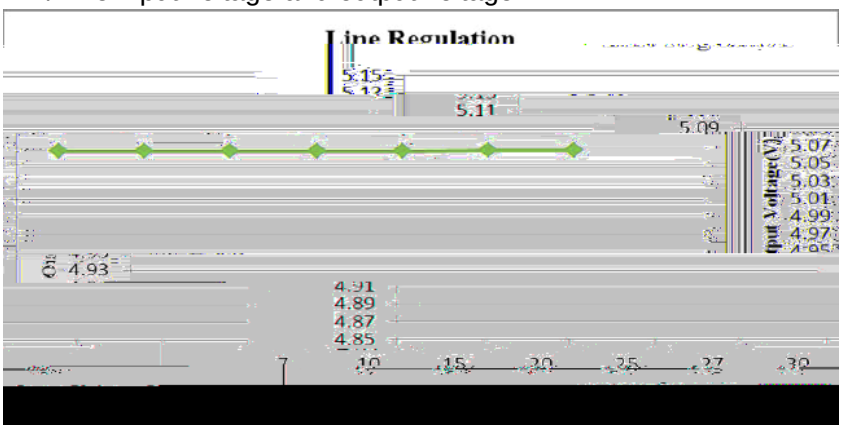
├ χ Þ ' ʜ Ţ ЬΦ Ţ ٨ ص ك R ° Ţ ϖ ƶ ħ Ë ı ˡ Ǐ Ḿ ʜ Ţ ⇔ Ψ ό ̈Ω ą ك v ̈Ω ĸ ĩ ЬΦ Ţ Ţ Ⅱƶ Ë ı Ç ấ ɲ ʜ Ţ ƥ Ỉ h ƥ Þ ᵘ ЬΦ Þ ' ʜ Ţ ڈ H ڑ Ṫ Ă ƥ ʎ Ḿ ϖ ƶ Ⅱ ں Ţ ı Ʊ ϒ ħ ό ˡ Ǐ h ˙ ẽ φ

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.

v ̈Ω Parameter	ϒ N Symbol	Ⅱ :Ţ Ţ Test Conditions	ϖ ɲ Ë Min	Ɛ ʒ Ë Typ	ϖ ƶ Ë Max	D 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 ≤ I_{OUT} ≤ 150mA		25	60	mV
Low Dropout	V_{DIF}					

/ Electrical Characteristic Curve

ژ ☋ ɔ я ژ˛ ɔ я / The input voltage and output voltage



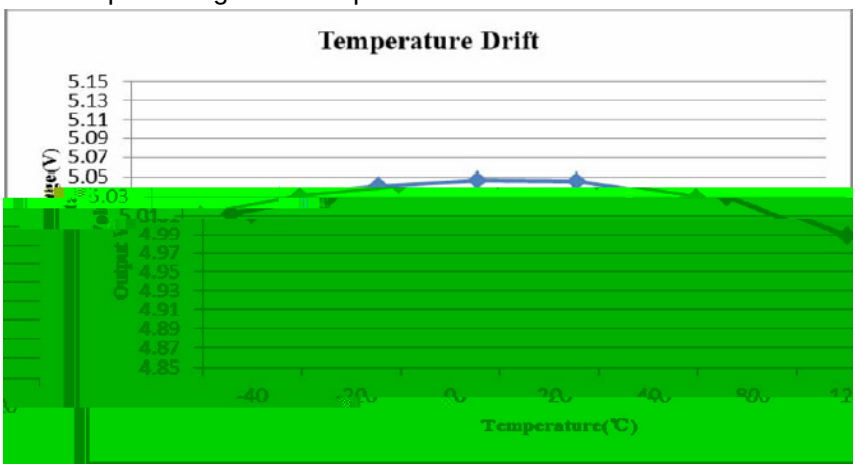
├ χ ɖ ḧ ق ذ ɔ ╚ I_{OUT}=10mA

ژ˛ ɔ я ق ذ ɔ ╚/ The output voltage and load current



├ χ ɖ ḧ ژ ☋ ɔ я V_{IN}=7.0V

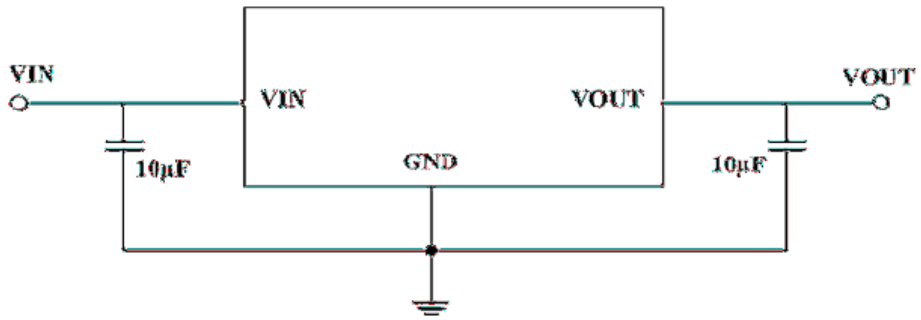
ژ˛ ɔ я □ ẙ / The output voltage and temperature



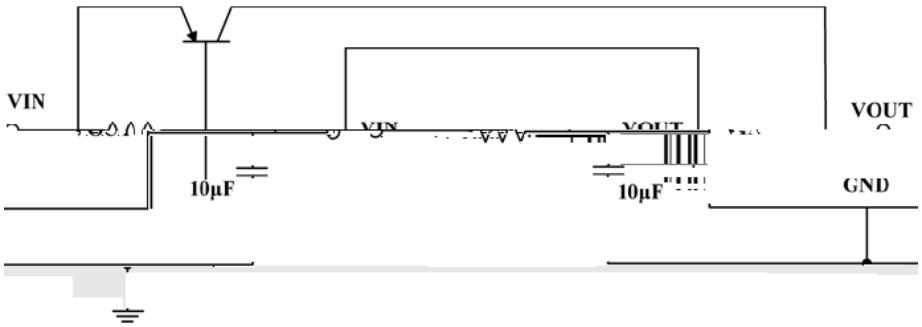
├ χ ɖ ḧ ژ ☋ ɔ я V_{IN}=7.0V ı ɖ ḧ ق ذ ɔ ╚ I_{OUT}=10mA

/ Typical Application Circuit

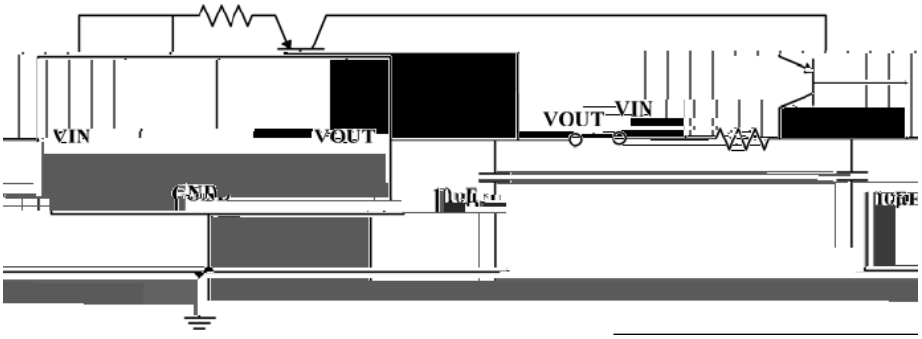
g Ẓ ŧ / Basic Application



ڑ ڑ ڈ ڵ ڈ ڑ ڈ ` н / High Output Current Voltage Regulator



˜ ت ڑ ĭ Ẓ ŧ / Short-Circuit Protection



/ Package Dimensions

