

/ Revised record

A	2022-7-18	All	All		

SOT23-3

Low dropout linear regulator in a SOT23-3 Plastic Package .

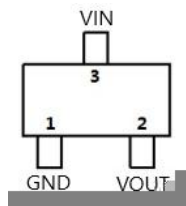
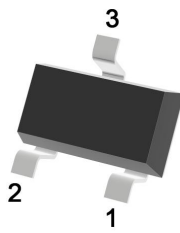
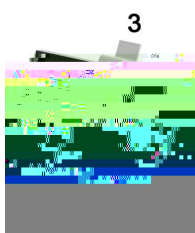
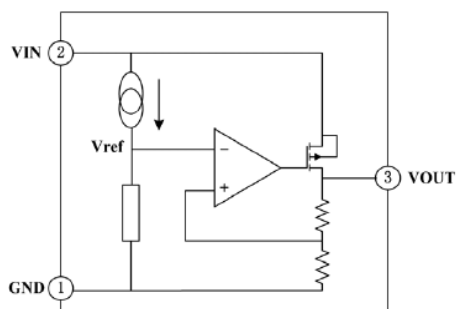
20V

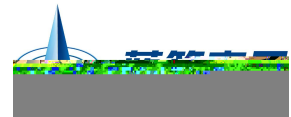
1.5 μ A

$\pm 2\%$

Low power consumption,Low voltage drop,Small temperature drift coefficient,High input voltage up to 20V,The static current 1.5 μ A,The output voltage accuracy: $\pm 2\%$,HF Product.

For use in power equipment,Communication equipment,Audio and video equipment.



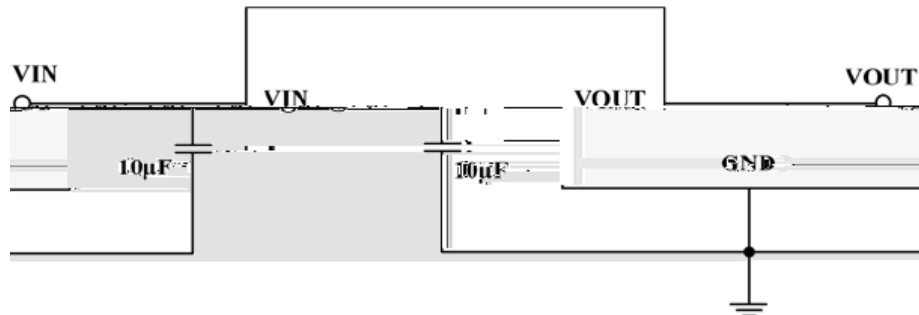


Parameter	Symbol	Rating	Unit
Working Voltage	V_{IN}	-0.3~+20	V
Thermal Resistance	$R_{\theta JA}$	500	$^{\circ}\text{C}/\text{W}$
Power Consumption	P_D	200	mW
Storage Temperature	T_{STG}	-50~+125	$^{\circ}\text{C}$
Working Temperature	T_A	-40~+85	$^{\circ}\text{C}$

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

/ Typical Application Circuit

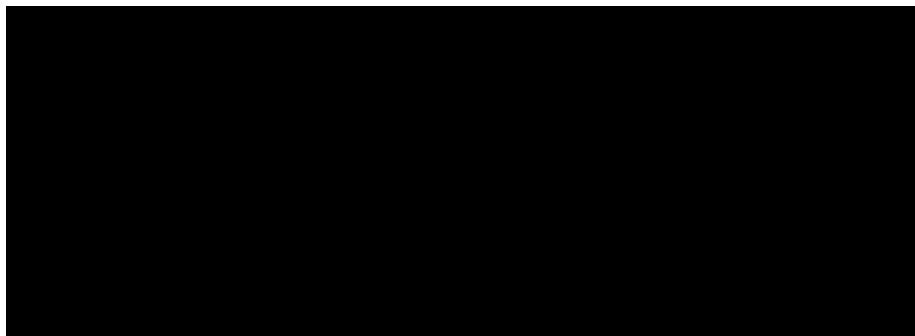
/ Basic Application



/ High Output Current Voltage Regulator

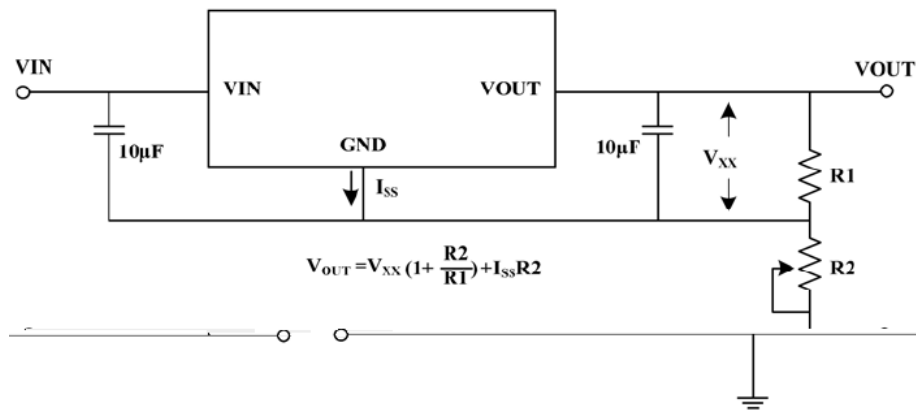


/ Short-Circuit Protection

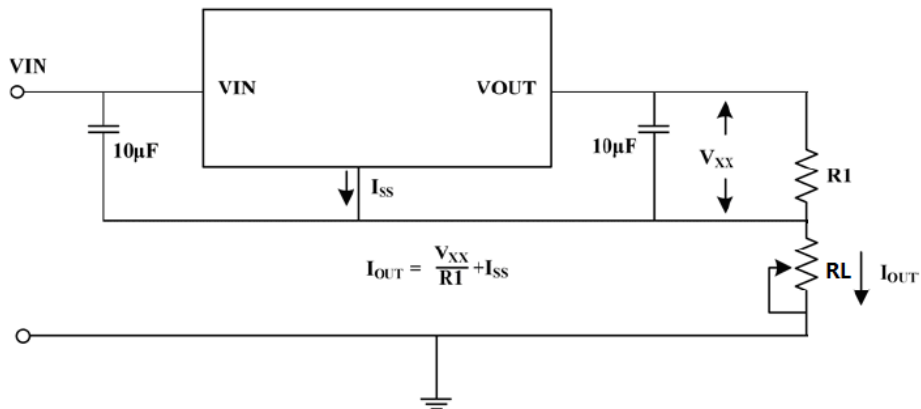


/ Typical Application Circuit

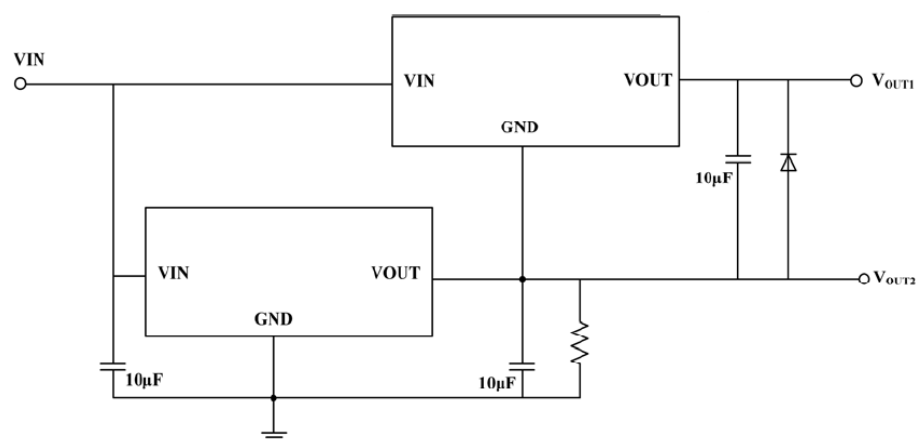
/ Circuit for Increasing Output Voltage



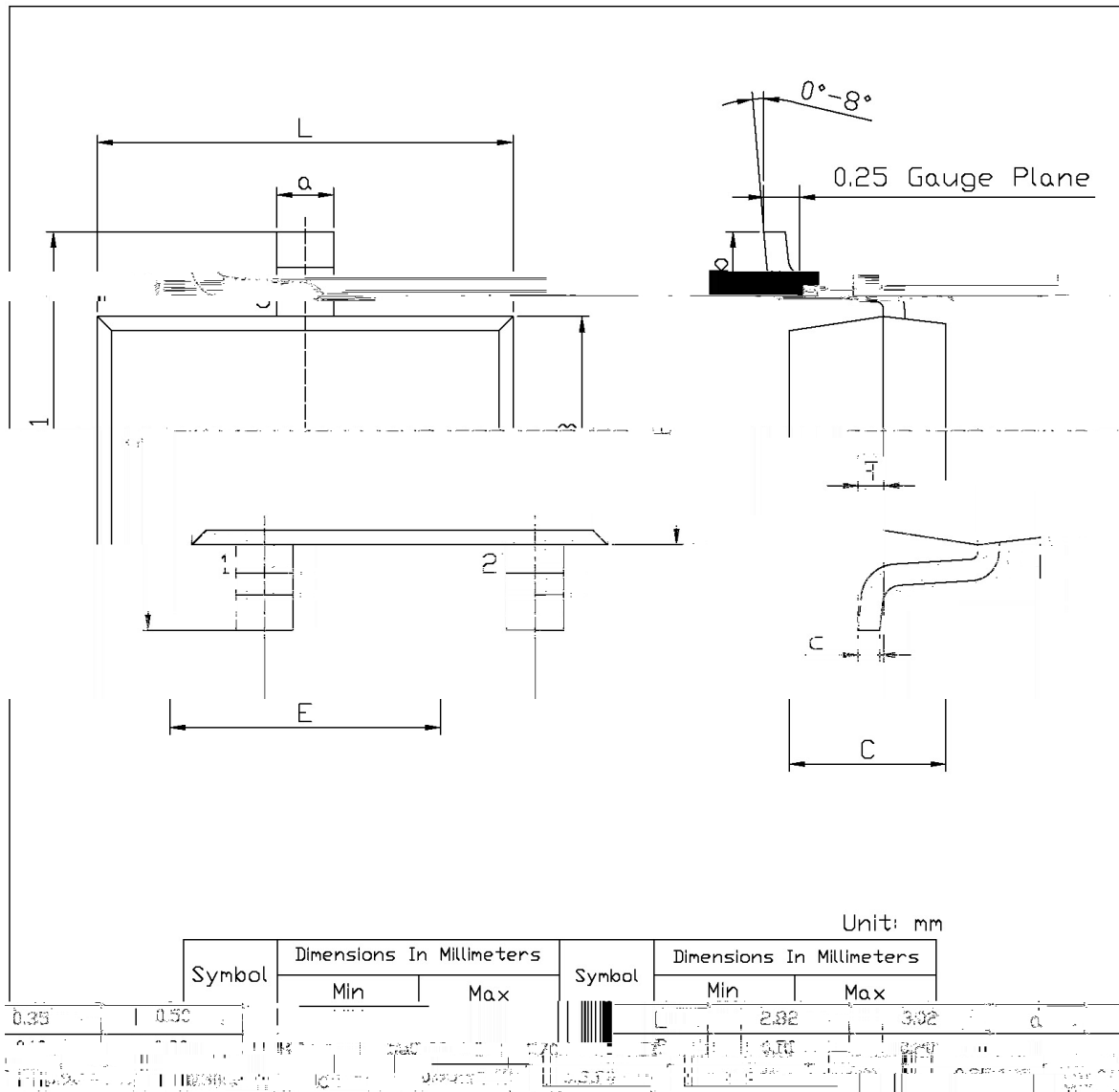
/ Constant Current Regulator



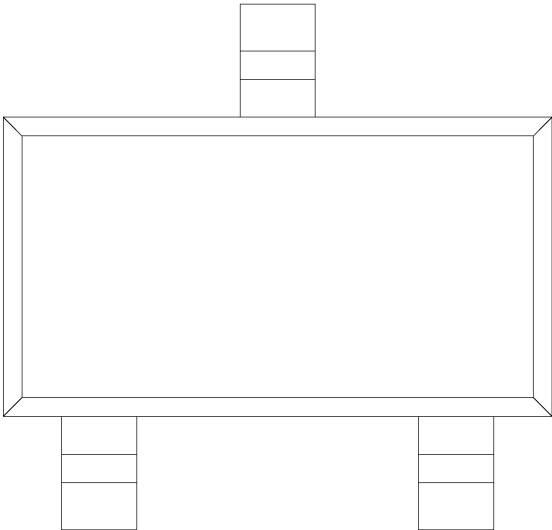
/ Double Output Circuit

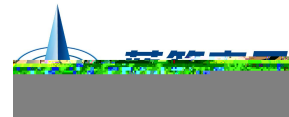


/ Package Dimensions



/ Marking Instructions





() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | |
|---|---------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT23-3	3,000	10	30,000	4	120,000	7" ×8	210×205×205	445×230×435