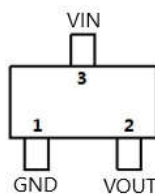
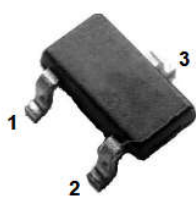
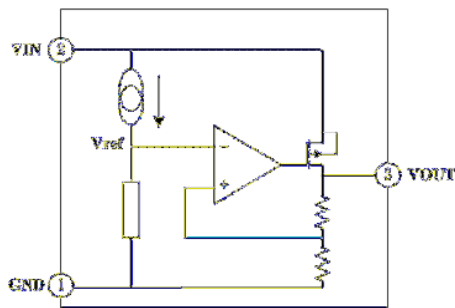




Low dropout linear regulator in a SOT23-3 Plastic Package .

Low power consumption,Low voltage drop,Small temperature drift coefficient,High input voltage up to 30V,The static current 2.5 A,The output voltage accuracy .HF Product.

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



1	GND		3	VIN	
2	VOUT				

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Working Voltage	$V_{IN}$	-0.3~33	V
Thermal Resistance	$R_{\theta JA}$	250	$^{\circ}W$
Power Consumption	$P_D$	400	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	$V_{OUT}$	$V_{IN}=5.3V, I_{OUT}=10mA$	3.234	3.30	3.366	V
The Output Current	$I_{OUT}$	$V_{IN}=5.3V$	100	150		mA
Load Regulation	$\Delta V_{OUT}$	$V_{IN}=5.3V$ $1mA \leq I_{OUT} \leq 150mA$		25	60	mV
Low Dropout	$V_{DIF}$	$I_{OUT}=1mA, \Delta V_{OUT}=2\%$		25	55	mV
Static Power	$I_{SS}$	$V_{IN}=5.3V$		2.5	4.0	$\mu A$
Linear Regulation	$\frac{\Delta V_{OUT}}{V_{OUT}} / \Delta V_{IN}$	$5.3 \leq V_{IN} \leq 30V$ $I_{OUT}=10mA$			0.2	%/V
The Input Voltage	$V_{IN}$				30	V
Temperature Coefficient	$\frac{\Delta V_{OUT}}{\Delta T_A} / V_{OUT}$	$V_{IN}=7.0V, I_{OUT}=10mA$ $-40^{\circ}C \leq T_A \leq 85^{\circ}C$		100		ppm/ $^{\circ}C$

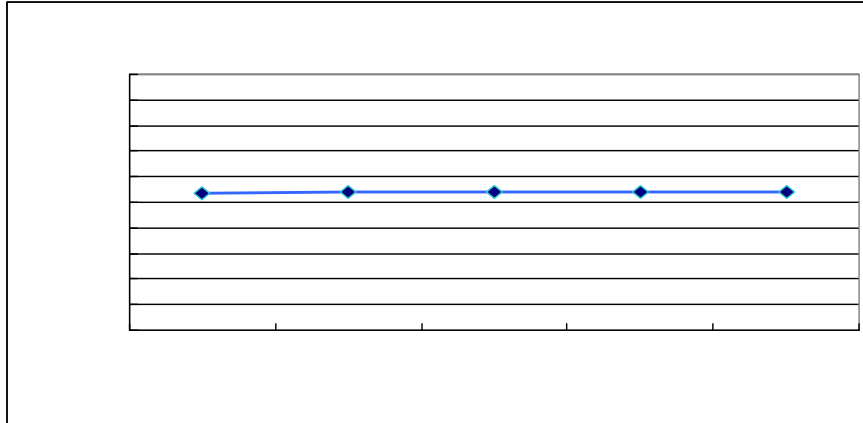
$$V_{IN}=5.3V$$

$$2\%$$

$V_{DIF}$

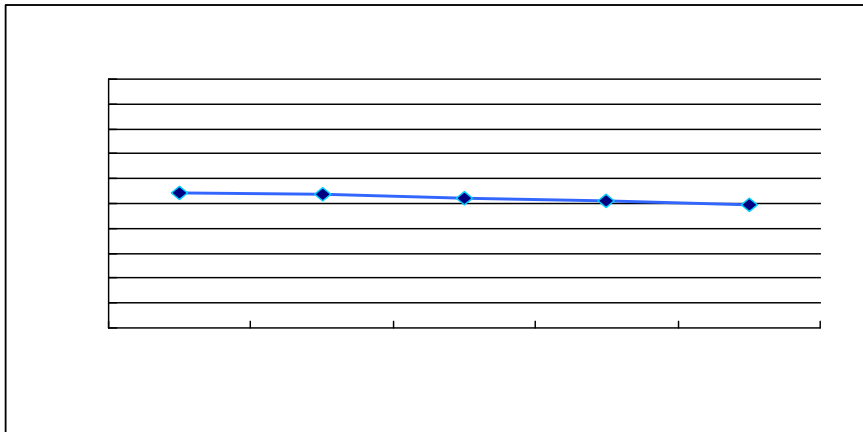
Note:  $V_{DIF}$  is defined as the input voltage minus the output voltage that produces a 2% change in the output voltage from the value at  $V_{IN}=5.3V$  with a fixed load.

/ The input voltage and output voltage



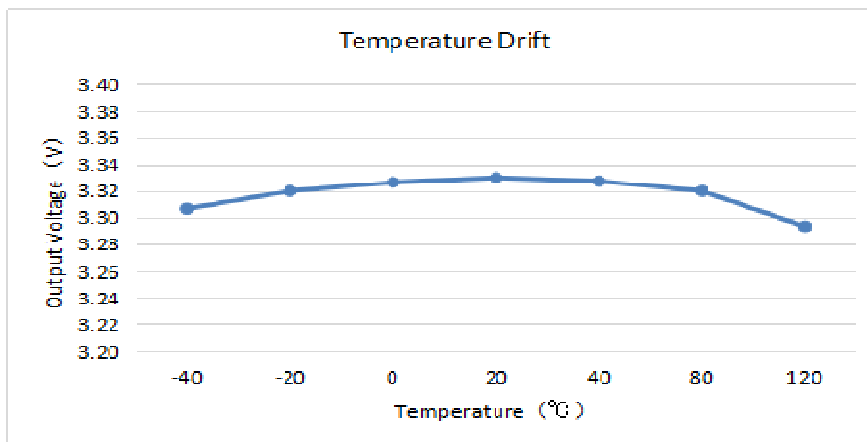
$I_{OUT}=10mA$

/ The output voltage and load current



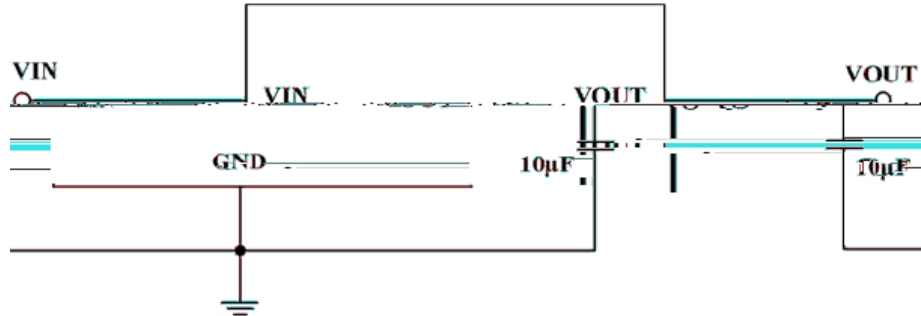
$V_{IN}=5.3V$

/ The output voltage and temperature

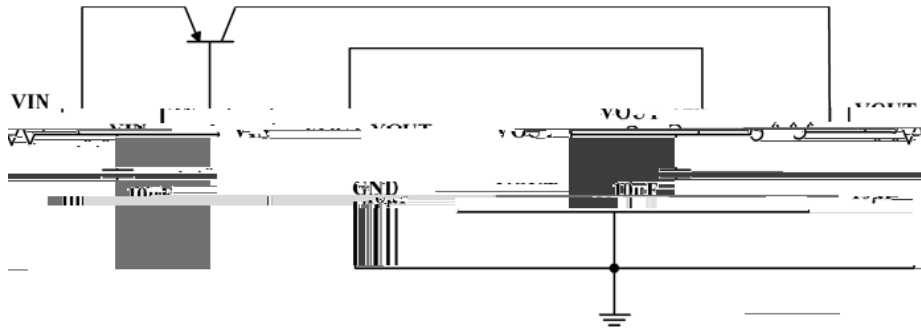


$I_{OUT}=10mA$

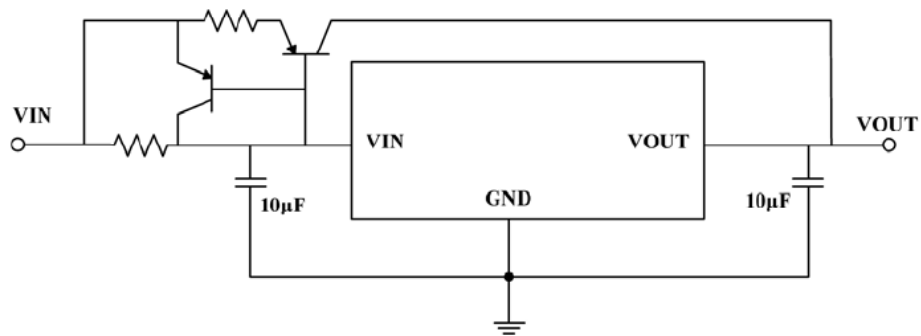
/ Basic Application



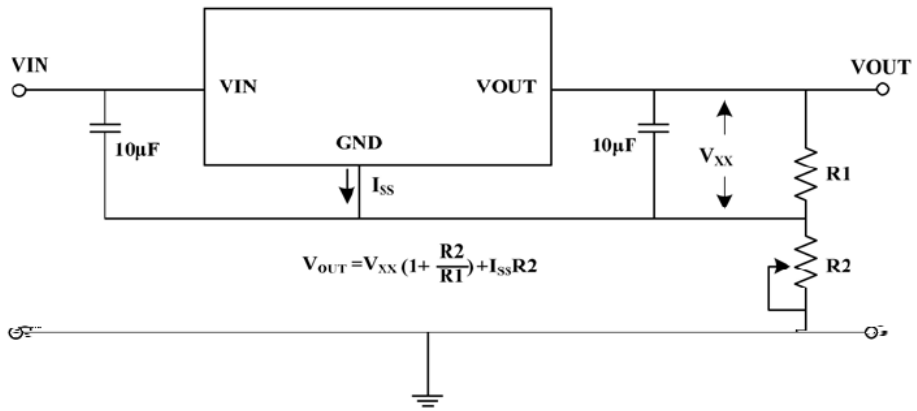
/ High Output Current Voltage Regulator



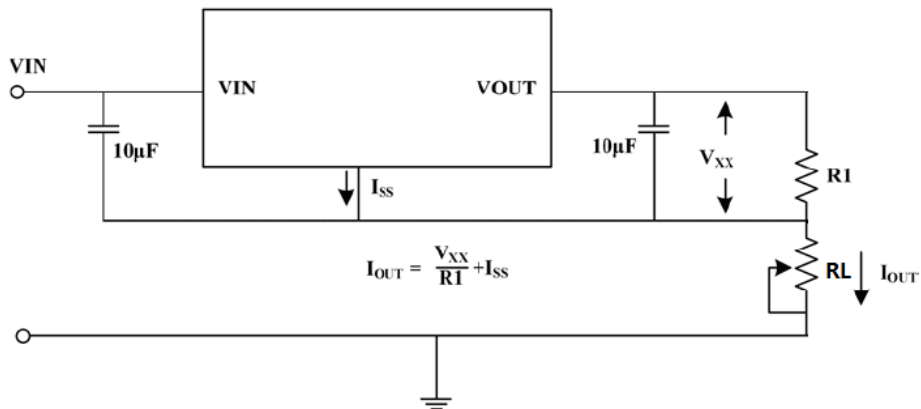
/ Short-Circuit Protection



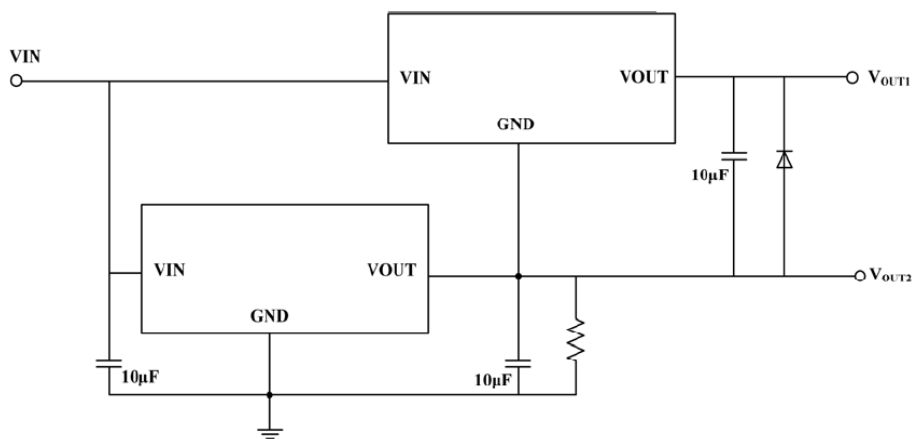
/ Circuit for Increasing Output Voltage

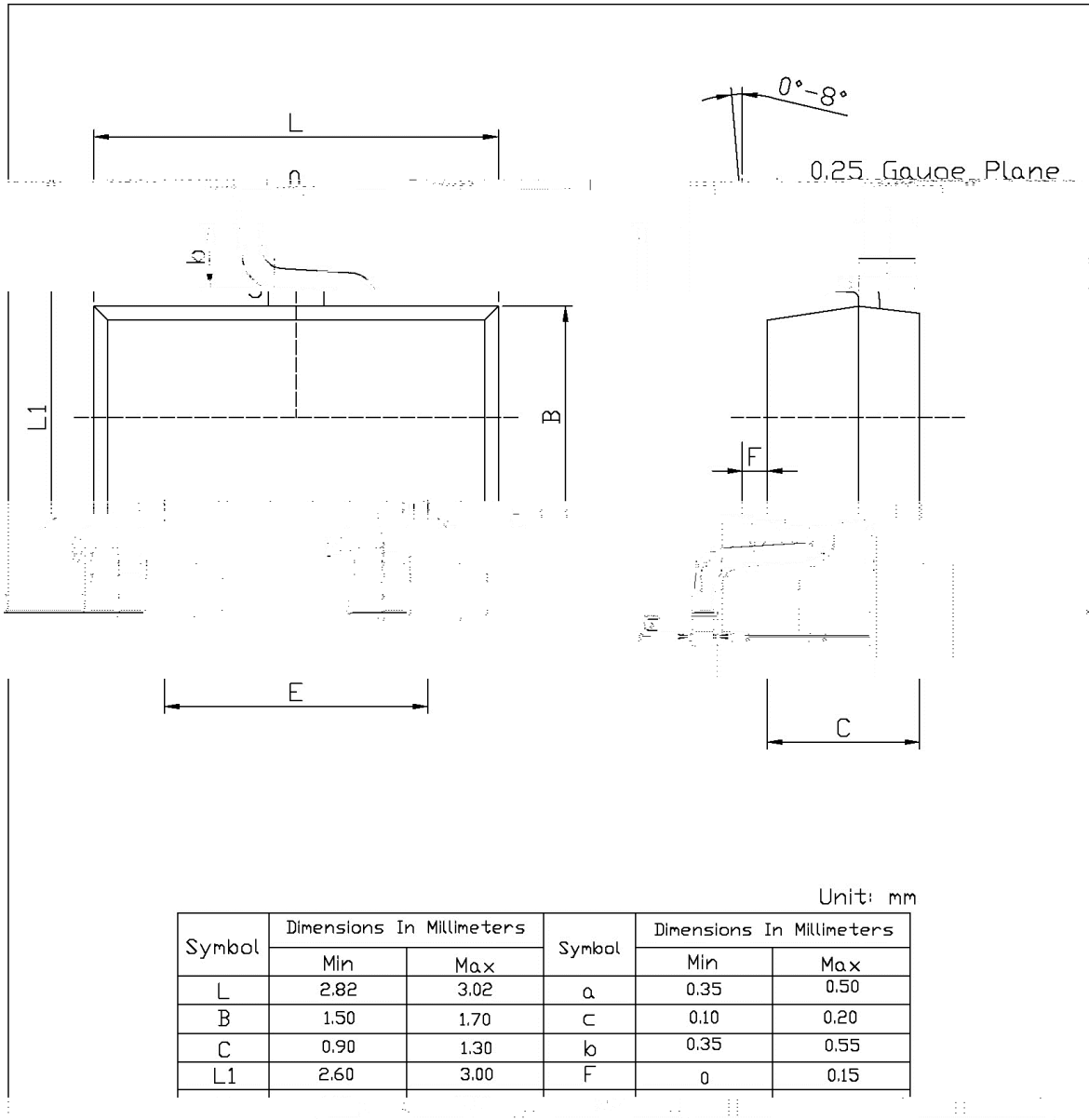


/ Constant Current Regulator

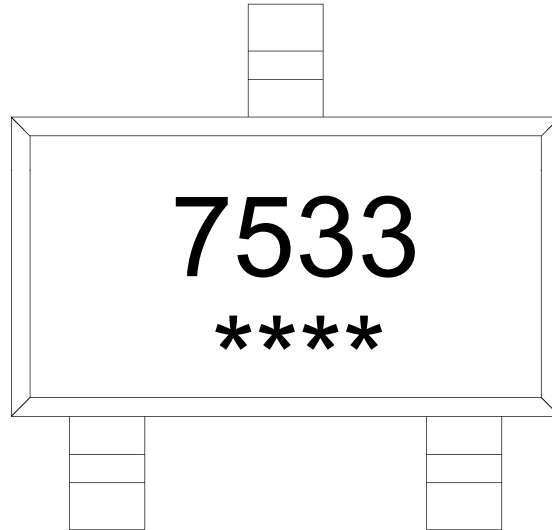


/ Double Output Circuit





SOT23-3



7533

Note:

7533: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

Rev.B Apr.-2021

