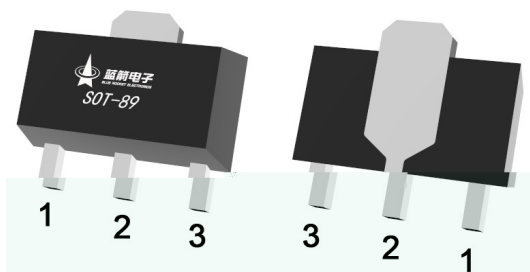
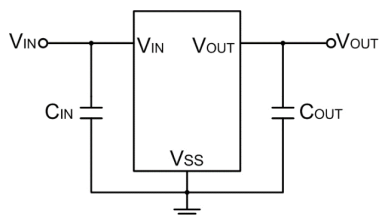


Low dropout linear regulator in a SOT-89 Plastic Package .

- ◆ 2uA
- ◆ 250mA
- ◆ 450mV@100mA($V_{OUT}=5.0V$)
- ◆ 2%
- ◆ 70dB@1kHz
- ◆ 90uV_{RMS} 10Hz~100kHz
- ◆
- ◆
- ◆
- ◆

- ◆
- ◆
- ◆
- ◆
- ◆



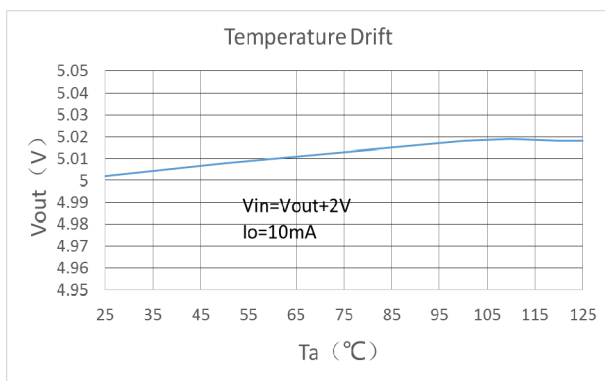
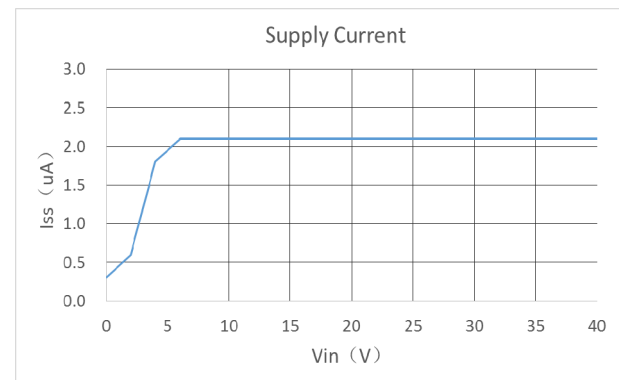
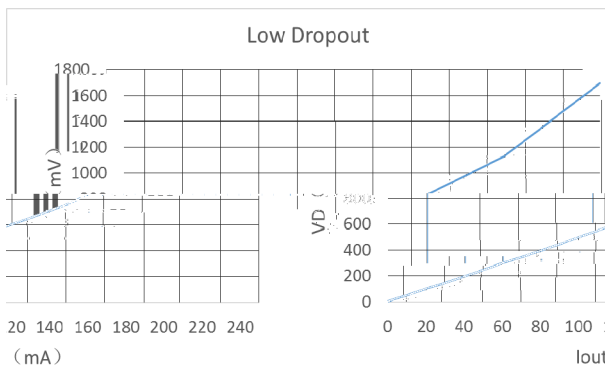
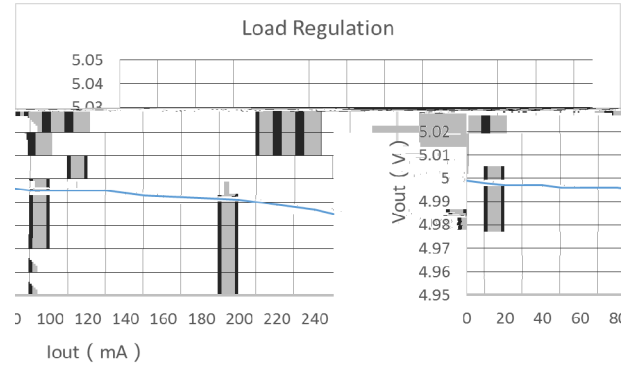
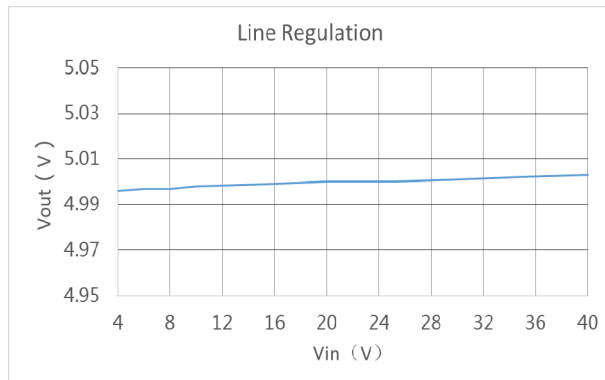
PIN1 GND PIN 2 VIN PIN 3 VOUT

See Marking Instructions.

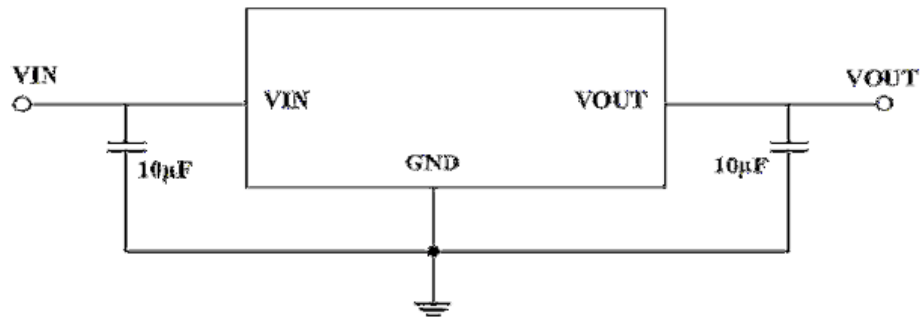
	V_{IN}	-0.3 to 40	V
	I_{OUT}	250	mA
	P_D	0.6	W
	T_{stg}	-40 to +125	°C
	T_A	-40 to +85	
10s	T_{sold}	260	°C
	HBM	2	kV
	MM	200	V

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.

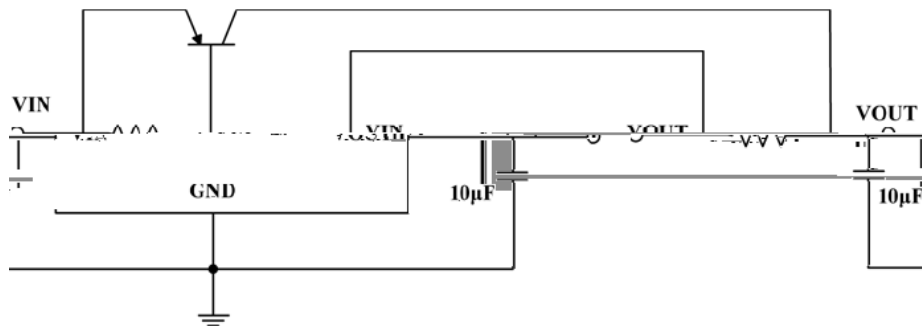
	V_{IN}				36	V
1	$V_{OUT\ E}$	$I_{OUT}=10mA$	4.9	5.0	5.1	V
2	V_{dif}	$I_{OUT}=100mA$ $V_{OUT}=5.0V$		450		mV
	I_{SS}	$I_{OUT}=0mA$		2	5	uA
	V_{load}	$V_{IN}=V_{OUT\ S}+2V$ $1mA\ I_{OUT}\ 250mA$		20	50	mV
	V_{line}	$I_{OUT}=10mA$ $V_{OUT\ S}+2V\ V_{IN}$ 36V		10	50	mV
	$V_{OUT}/$ ($T_A \cdot V_{OUT}$)	$I_{OUT}=10mA$ -40 T_A 85		50		ppm/
	I_{LIM}	$V_{OUT}=0.5 \times$ $V_{OUT(Normal)}, V_{IN}=7.0V$		350		mA
	I_{SHORT}	$V_{OUT}=V_{SS}$		100		mA



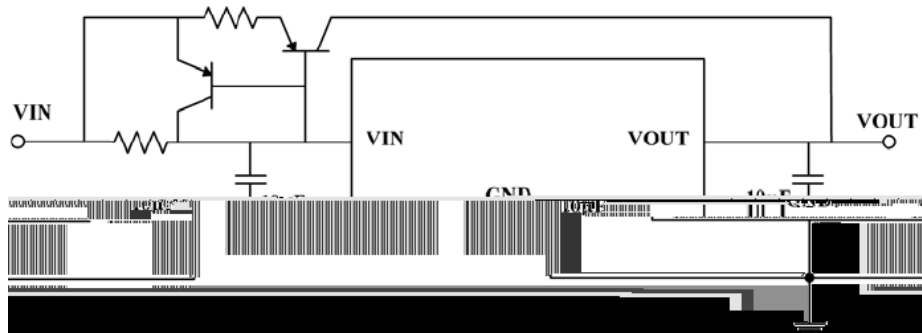
/ Basic Application



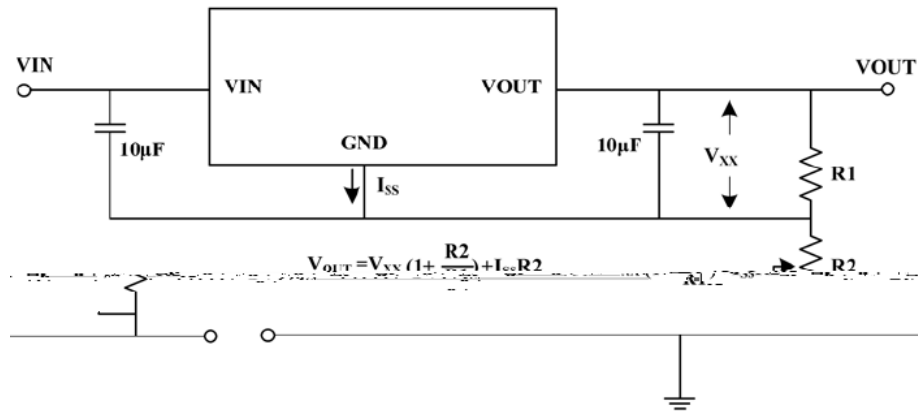
/ High Output Current Voltage Regulator



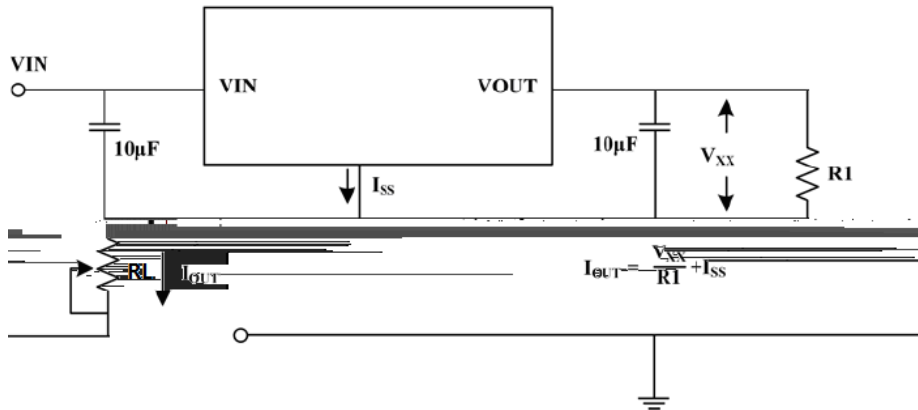
/ Short-Circuit Protection



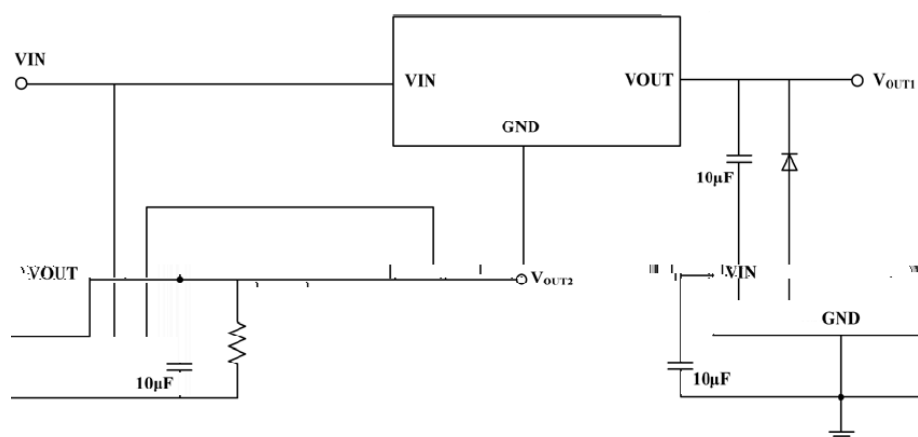
/ Circuit for Increasing Output Voltage



/ Constant Current Regulator

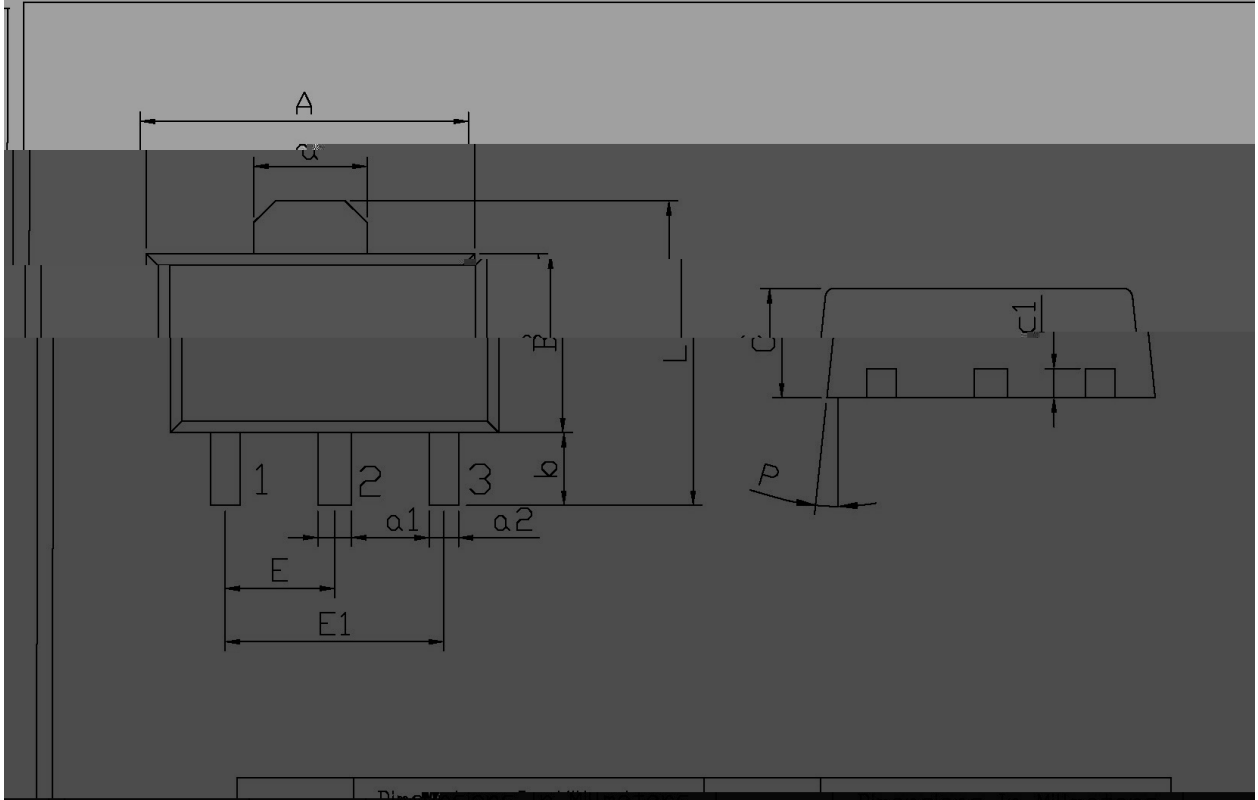


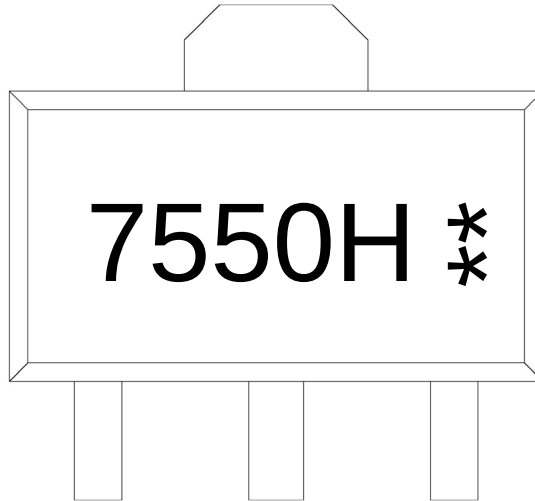
/ Double Output Circuit



STT-89

单位: mm





7550H

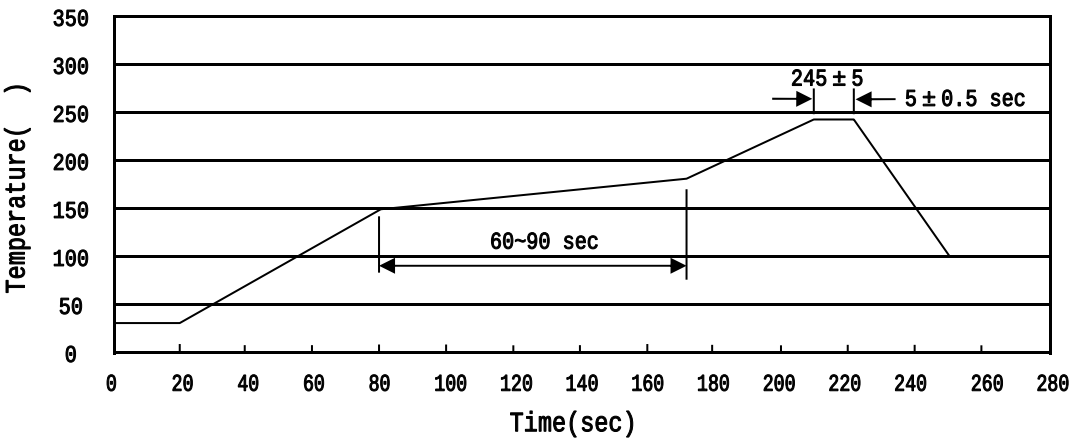
**

Note

7550H: Product Type Code

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

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

/sec.

3. Cooling Speed: 2~10 °C/sec.

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

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	10	10,000	4	40,000	7 ×12	210×205×205	445×435×230