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

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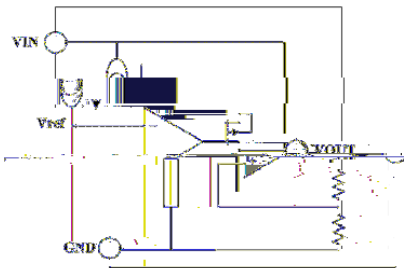
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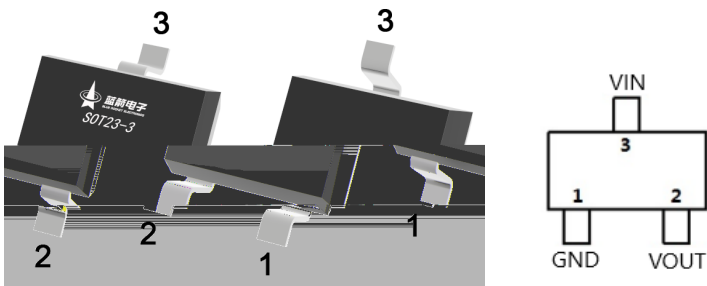
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For use in power equipment,Communication equipment,Audio and video equipment.

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1	GND	> a	3	VIN	9 ÿ μ €
2	VOUT	9 ÿ ß €			

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表 1

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①	②	③	④
V_{IN}	V_{IN}	-0.3 to 40	V
I_{OUT}	I_{OUT}	200	mA
P_D	P_D	0.6	W
T_{stg}	T_{stg}	-40 to +125	°C
T_A	T_A	-40 to +85	
T_{sld}	T_{sld}	260	°C
⑤	HBM	2	kV
	MM	200	V

① ② ③ ④ ⑤
 ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿
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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.

表 2

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①	②	③	④	⑤	⑥	⑦
V_{IN}	V_{IN}				36	V
$V_{OUT(gEh)}$	$V_{OUT(gEh)}$	$I_{OUT}=10mA$	4.9	5.0	5.1	V
V_{dif}	V_{dif}	$I_{OUT}=100mA$ $V_{OUT}=5.0V$		450		mV
I_{SS}	I_{SS}	$I_{OUT}=0mA$		2	5	uA
V_{load}	V_{load}	$V_{IN}=V_{OUTAS}+2V$ $1mA \leq I_{OUT} \leq 200mA$		20	50	mV
V_{line}	V_{line}	$I_{OUT}=10mA$ $V_{OUTAS}+2V \leq V_{IN} \leq 36V$		10	50	mV
$V_{OUT}/(T_A \cdot V_{OUT})$	$V_{OUT}/(T_A \cdot V_{OUT})$	$I_{OUT}=10mA$ $-40 \leq T_A \leq 85$		50		ppm/
I_{LIM}	I_{LIM}	$V_{OUT}=0.5 \times V_{OUT(Normal)}$, $V_{IN}=7.0V$		300		mA
I_{SHORT}	I_{SHORT}	$V_{OUT}=V_{SS}$		100		mA

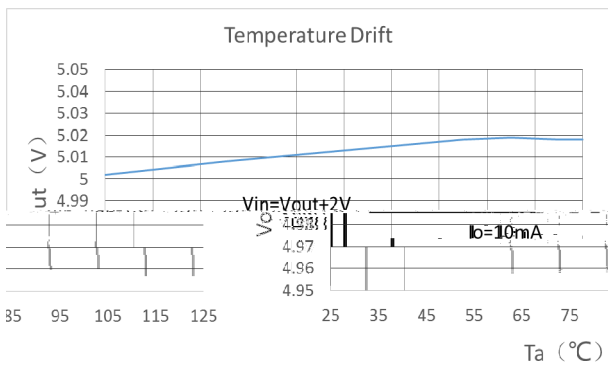
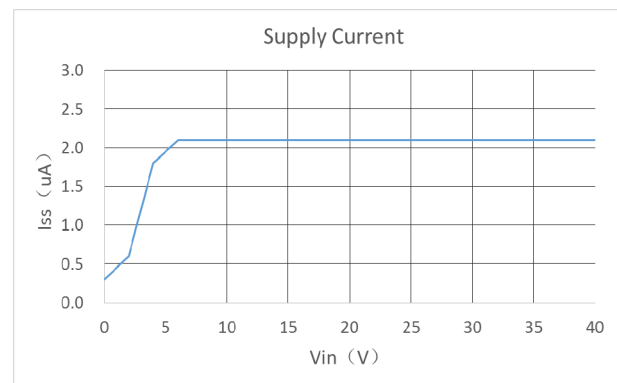
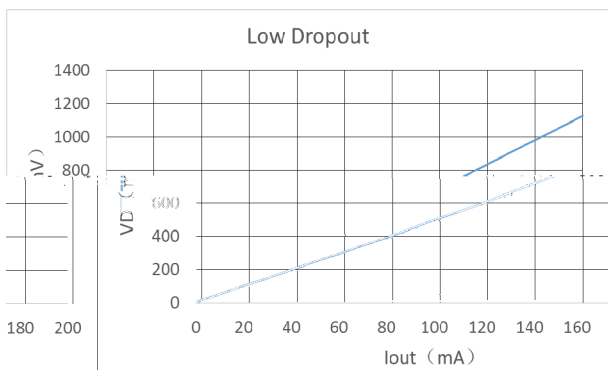
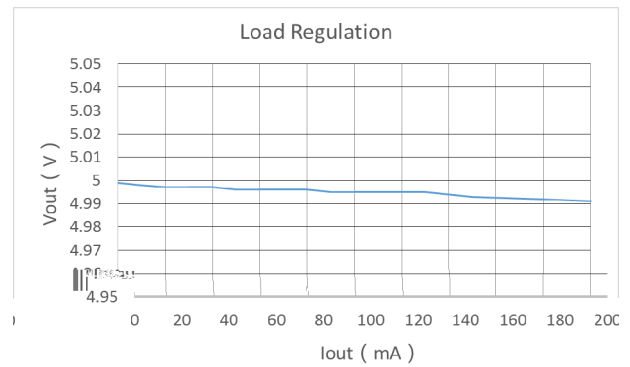
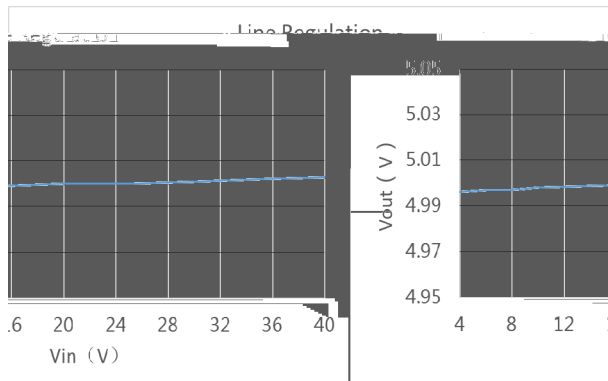
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> ¼ f ò A	PSRR	I _{OUT} =50mA Èf=100Hz		80		dB
		I _{OUT} =50mA Èf=1kHz		70		
		I _{OUT} =50mA Èf=10kHz		60		
		I _{OUT} =50mA Èf=100kHz		50		
ÿ ß ™ Ò 9	V _{ON}	BW=10Hz to 100kHz		90		uV _{RMS}

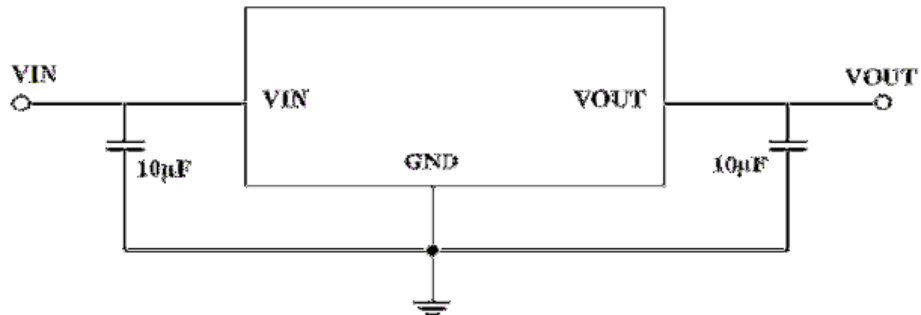
(1) V_{OUTgEh} Ž Ÿ ß 9 k V_{OUTgSh} — ö f Ÿ ß 9(2) Ÿ µ Ÿ ß 9 [# y i ç ú Ú ^ k Ÿ ß 9 V_{OUT} k Ù ã ' Ÿ µ 9 k + Ÿ ß 9 ' z ñ V_{OUT}*98% Ž k
Ÿ µ 9 y Ÿ ß 9 [> ož

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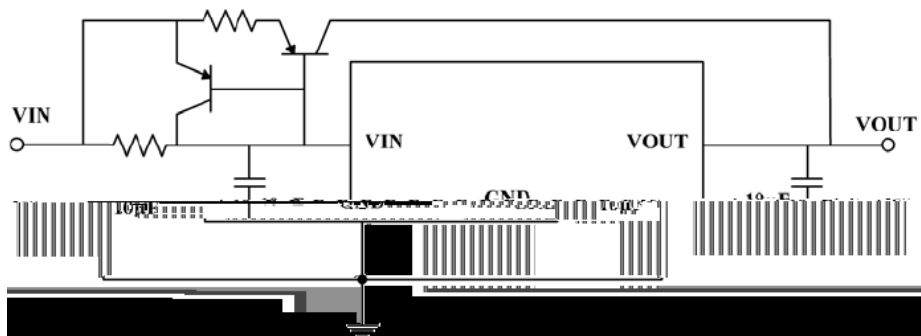
ÂÎ• / Basic Application



ÿßÝ v 9²-~ / High Output Current Voltage Regulator

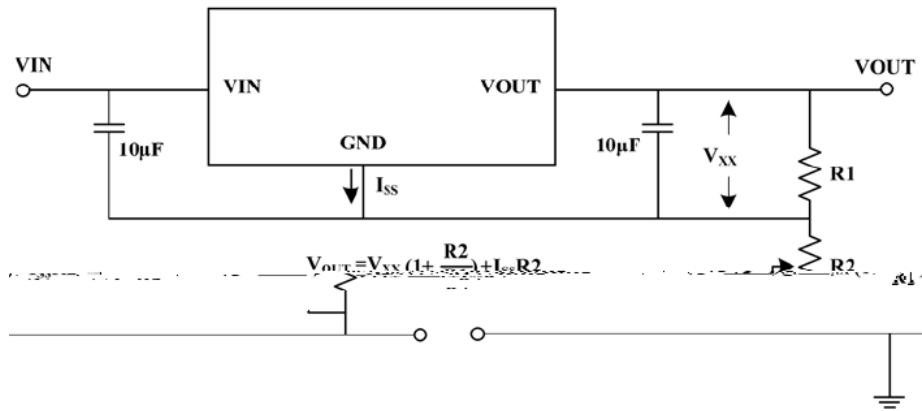


?è'• / Short-Circuit Protection

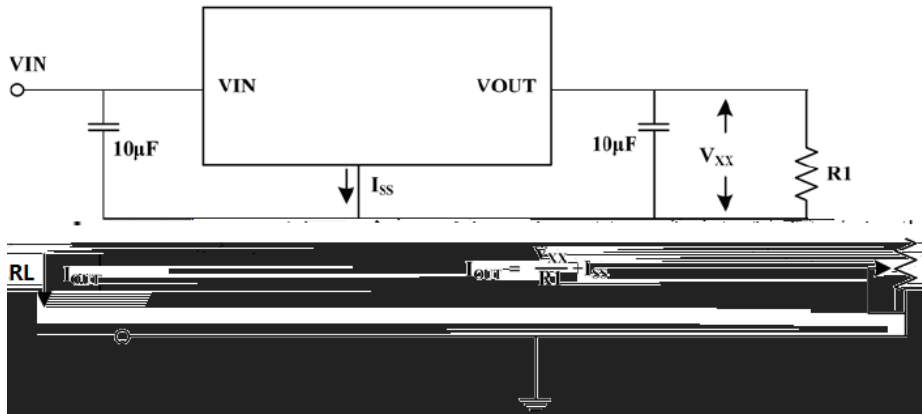


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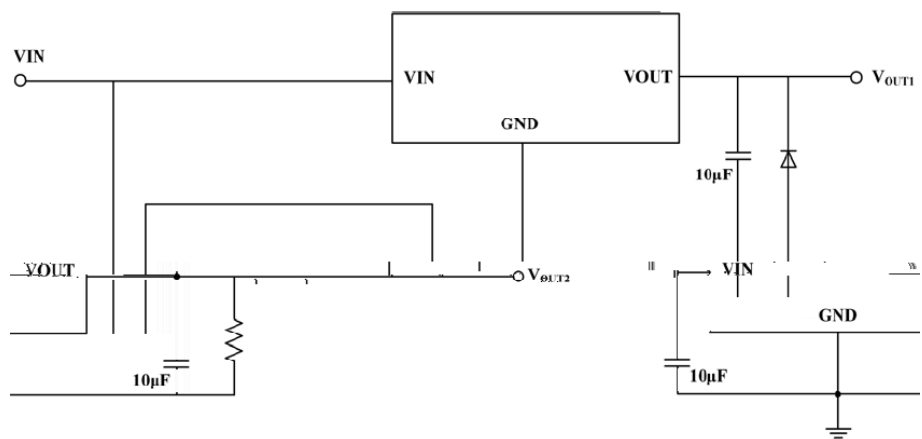
ÿßä9è / Circuit for Increasing Output Voltage



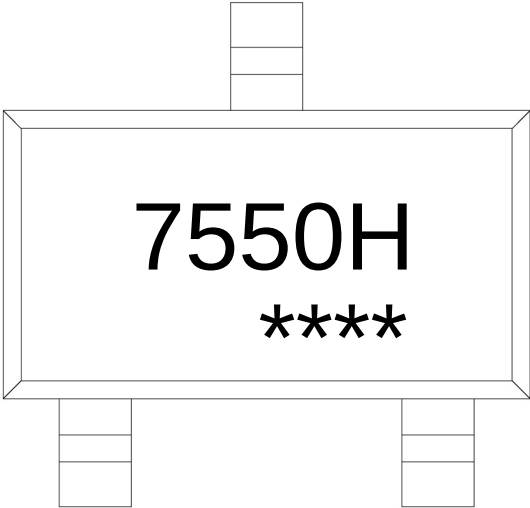
ÿßv²-è / Constant Current Regulator



Eÿßè / Double Output Circuit



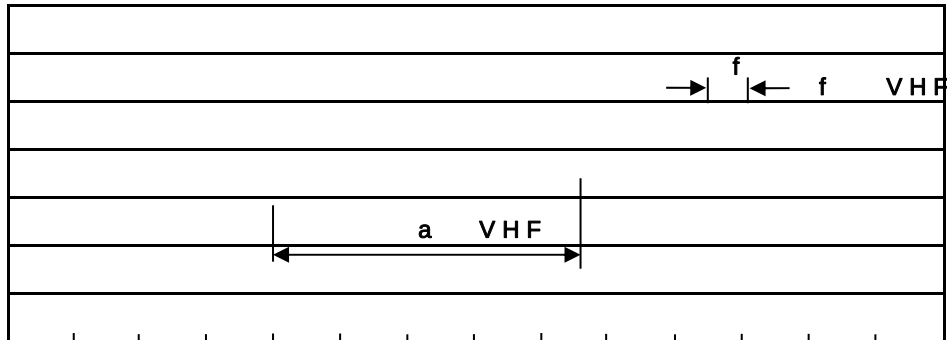
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Note:
7550H: Product Type Code
****: Lot No. Code, code change with Lot No

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7 LPH VHF

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10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;

20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »]

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

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2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOT23-3	3,000	10	30,000	4	120,000	7 s ×8	210×205×205	445×435×230

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