/ Descriptions

VRW0;< ṂṂ Ḫ Ḫя Ṯ ɨ ó ϒ я н

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

/ Features

Ḫ ̄ õ Ṫ Ă ɔ Ⱡ χ 2uA

ڑ ɔ Ⱡ χ 300mA

Ḫ я Ṯ χ 200mV@100mA(V_{OUT}=5.0V)

ݔ ϒ ẙ χ ° 2%

ݔ ɔ ◊ ″Ḣ ⅝ χ 70dB@1kHz

Ḫ ڑ ƍ ϕ χ 90uV$_{RMS}$ ε 10Hz~100kHz ζ

ڑ ق ڈ õ φ Ẕ

ɲ ɻ ɔ Ⱡ ں ı ~ ث ʒ ĭ

ص♬ ʒ ĭ

ḭ ғ β

/ Applications

Æ ŧ ɔ – ě ɔ ϕ ŧ OBJ ϒ я ɔ ◊

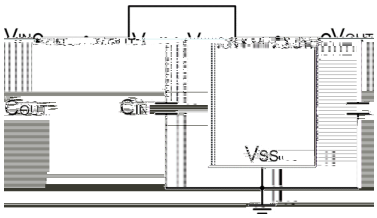
ụ ʒ ϕ ŧ OBJ ϒ я ɔ ◊

Ḳ ɔ ˘ ʊ OBJ ϒ я ɔ ◊

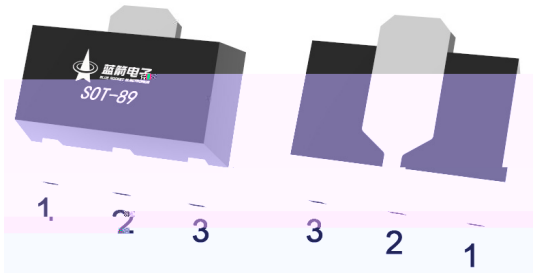
ϒ ʊ ɔ ʔ OBJ ϒ я ɔ ◊

ӝ ″Ạ Ã ıı ŧ ɷ н OBJ ϒ я ɔ ◊

/ Equivalent Circuit



/ Pinning



PIN1 χ GND PIN 2 χ VIN PIN 3 χ VOUT

/ Marking

ȣ м ϒ ب ″

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v Ω	ϒ N	Ω Ö	D Ђ
ڑ ϑ ɔ я	V_{IN}	-0.3 to 40	V
ڑ ɔ Ш	I_{OUT}	600	mA
ă Ω ı '	P_D	0.6	W
Ч è □ ỷ	T_{stg}	-40 to +125	°C
Ṫ Ă □ ỷ	T_A	-40 to +125	
ϒ ő ì □ ỷ ε 10s ζ	T_{sold}	260	°C
گ ˍ ɔ ϟ ϒ	HBM	2	kV
	MM	200	V

/ Electrical Characteristics(T_A=25 , V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1uF, unless otherwise specified)

v Ω	ϒ N	Ш : ˦ ţ	ω ņ Ö	Ɛ ʒ Ö	ω ᶻ Ö	D Ђ
ڑ ϑ ɔ я	V_{IN}				36	V
ڑ ɔ я ε 1 ζ	V_{OUT} ε E ζ	I_{OUT}=10mA	4.9	5.0	5.1	V
ڑ ϑ ڑ я Ţ ε 2 ζ	V_{dif}	I_{OUT}=100mA V_{OUT}=5.0V		200		mV
ˍ õ Ṫ Ă ɔ Ш	I_{SS}	I_{OUT}=0mA		2	5	uA
ق ذ ذ Ỹ Ω '	V_{load}	V_{IN}=V_{OUT} s +1V 1mA ≤ I_{OUT} ≤ 300mA		15	50	mV
ϟ ό ذ Ỹ Ω '	V_{OUT}/ (V_{IN}*V_{OUT})	I_{OUT}=10mA V_{OUT} s +1V ≤ V_{IN} ≤ 36V		0.01	0.1	%/V
ڑ ɔ я □ ỷ ϟ Ỹ Ω	V_{OUT}/ (T_A*V_{OUT})	I_{OUT}=10mA -40 ≤ T_A ≤ 125		50		ppm/
ڑ ɔ Ш	I_{LIM}	V_{OUT}= 0.5 x $V_{OUT(Normal)}$, V_{IN} = 6.0V	350			mA
ڑ ~ ث ɔ Ш	I_{SHORT}	V_{OUT}=V_{SS}		100		mA
ɔ ◊ ϟ └ ″ H ¨ ⅝	PSRR	I_{OUT}=50mA f=100Hz		75		dB
		I_{OUT}=50mA f=1kHz		70		
		I_{OUT}=50mA f=10kHz		55		
		I_{OUT}=50mA f=100kHz		40		

/ Electrical Characteristics(T_A=25 , V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1uF, unless otherwise specified)

v Ѿ	ㄚ N	ㅛ :ㅓ ㅜ	ѡ ṇ Ө	Ɛ ʒ Ө	ѡ ᶻ Ө	D Ꮒ
ぅ, ƍ ф ↄ я	V_{ON}	BW=10Hz to 100kHz		90		uV_{RMS}
♬ ʜ Ă □ ỷ	T_{SD}			160		
♬ ʜ Ă ق ◖ □ ỷ	T_{SD}			20		

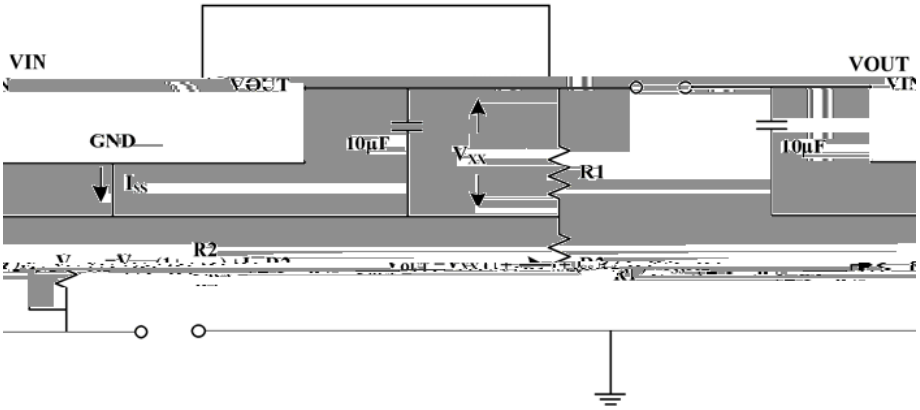
(1) V_{OUT} ε E ζ ʁ ḫ ڳ ぅ, ↄ я ı V_{OUT} ε S ζ ʁ ф ḧ ‰ ㄚ ぅ, ↄ я

(2) ぅ ᖉ ぅ, ↄ я Ṯ ḧ Θ χ ɖ ḧ ق ɔ ㅓ ㅜ ï ı ぅ, ↄ я V_{OUT} ı ㅓ ỹ ï ∪ ぅ ᖉ ↄ я ı ´ ₆ ぅ, ↄ я ∪ Ꮒ V_{OUT}*98%ˋH ı ぅ ᖉ ↄ я ⁼ ぅ, ↄ я Ṯ Ө

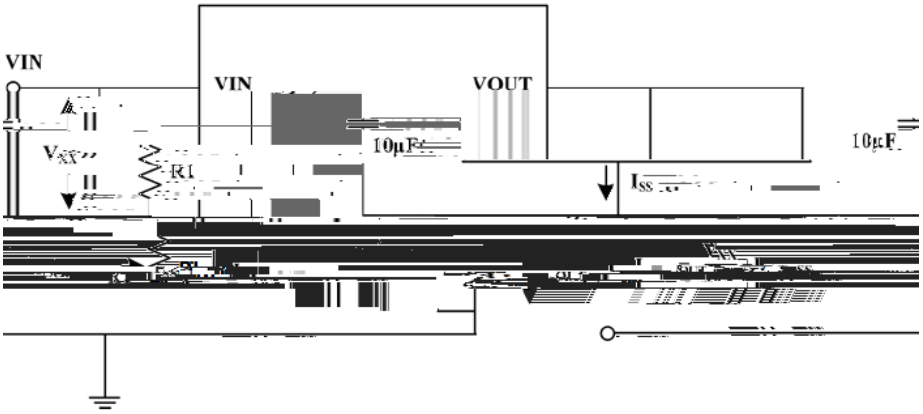
BRCO7350HT

/ Typical Application Circuit

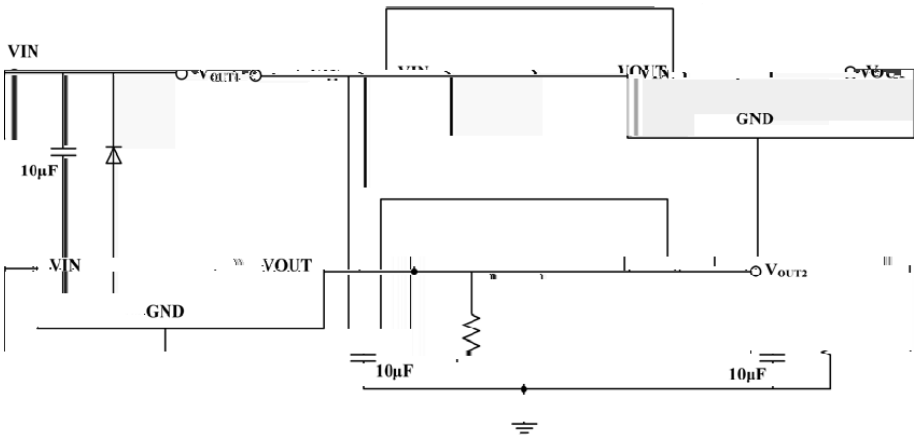
ڑ، ح د я د ت / Circuit for Increasing Output Voltage



ڑ، د ╚ ذ ` د ت / Constant Current Regulator

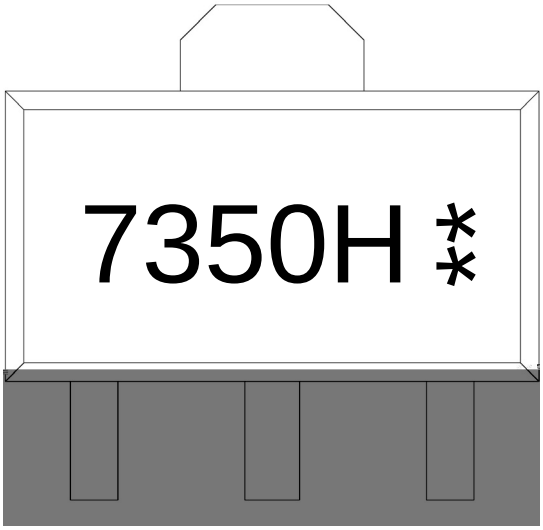


ژ ڑ، د ت / Double Output Circuit



BRCO7350HT

/ Marking Instructions



ᴗ ˝ χ

7350H χ ᵻᵡ ȝ ᴺ ᒣ

** χ ᵻᵡ ᵻ ᶠ ᵑ̈ ᴺ ᒣ ᵻ ᵩ ᵻ ᶠ ᵑ̈ ᴺ Ψ ᑭ

Note:

7350H: Product Type Code

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

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 245 ° 5 ł ı `H ڑ `Y ㅅ ㎞ 5 ° 0.5sec;

3 ì ˙ ㅅ ˛ ɔ ෯ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

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

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ł	`H ڑ χ 10 ° 1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

ი ` ㅓ Ł / REEL

Package Type	Units	Dimension	(unit mm³)