

BRCO7533TAQ

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Working Voltage	V _{IN}	-0.3~33	V
Thermal Resistance	R _{JA}	200	/W
Power Consumption	P _W	500	mW
Storage Temperature	T _{STG}	-50~+125	
Working Temperature	T _A	-40~+85	

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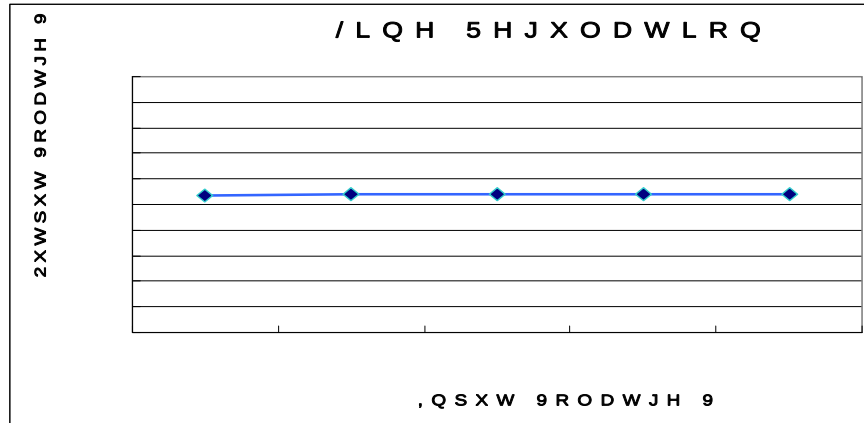
Notes: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If the device to work long hours under the condition of absolute maximum limit, its stability may be affected.

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ÿ > Max	% y 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	, V _{OUT}	V _{IN} =5.3V 1mA 0 I _{OUT} 0 150mA		25	60	mV
Low Dropout	V _{DIF}	I _{OUT} =1mA, , V _{OUT} =2%		25	55	mV
Static Power	I _{SS}	V _{IN} =5.3V		2.5	4.0	A
Linear Regulation	, V _{OUT} /V _{OUT} * , V _{IN}	5.3 0 V _{IN} 0 30V I _{OUT} =10mA			0.2	%/V
The Input Voltage	V _{IN}				30	V
Temperature Coefficient	, V _{OUT} / , T _A *V _{OUT}	V _{IN} =7.0V, I _{OUT} =10mA -40 0 T _A 0 85		100		ppm/

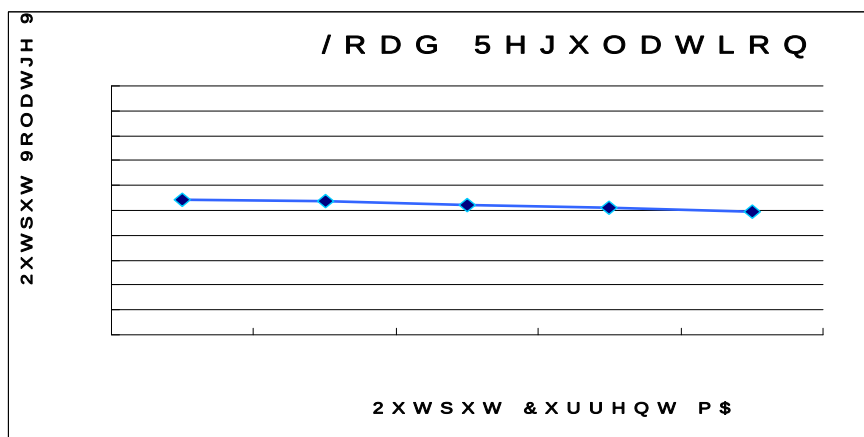
h y ¢ V_{IN}=5.3V k i ž ú Ú ^ ... Ÿ ß 9 ' 2% k 4 ž Ÿ µ 9 y Ÿ ß 9 [> z 9 [> l

Electrical Characteristic Curve

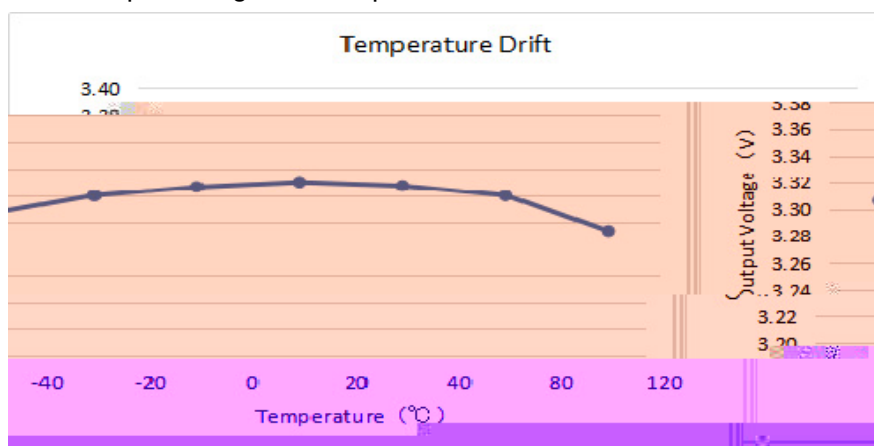
The input voltage and output voltage



The output voltage and load current



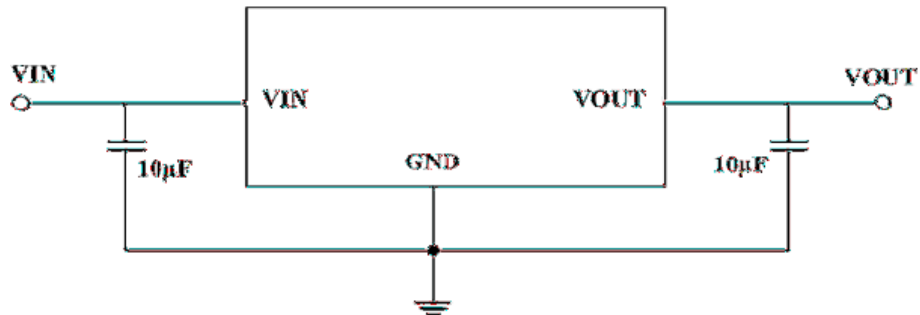
The output voltage and temperature



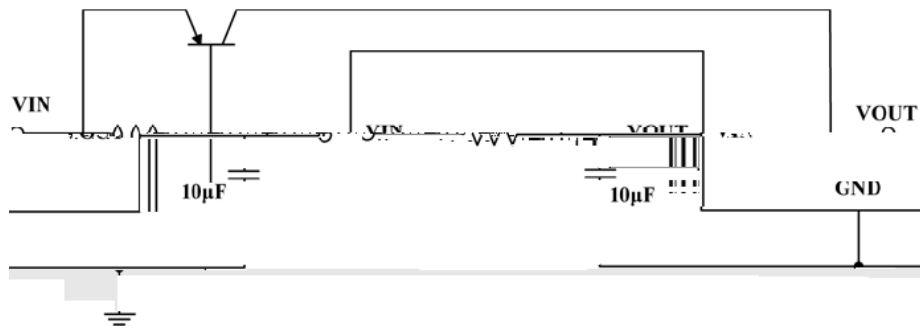
The output voltage and load current

À¹€ĐÔ· / Typical Application Circuit

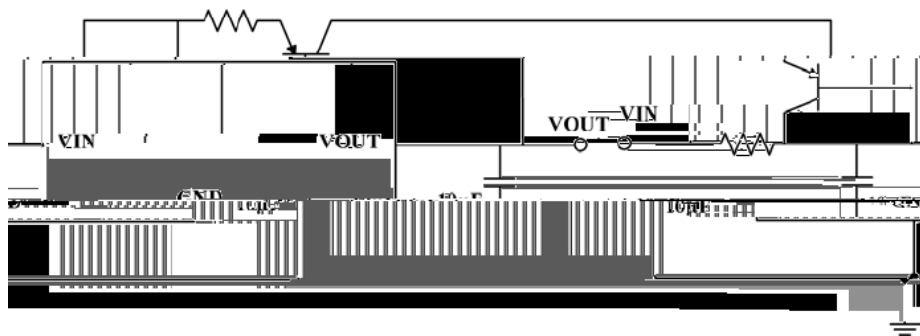
Âî• / Basic Application



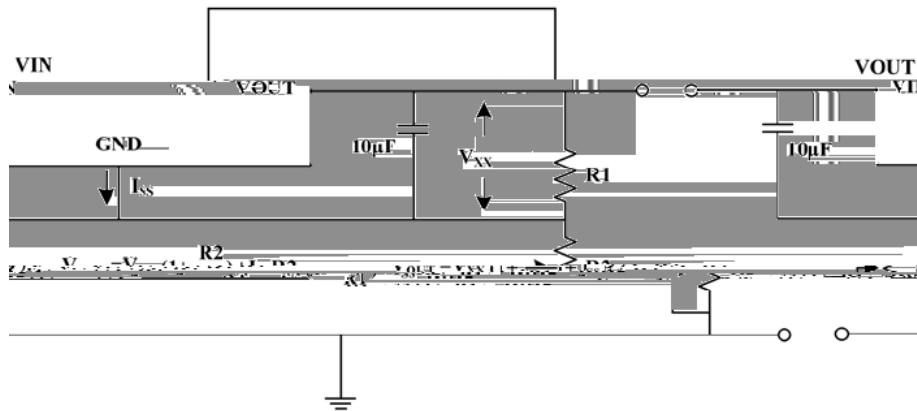
ÿßÝ v 9²-~ / High Output Current Voltage Regulator



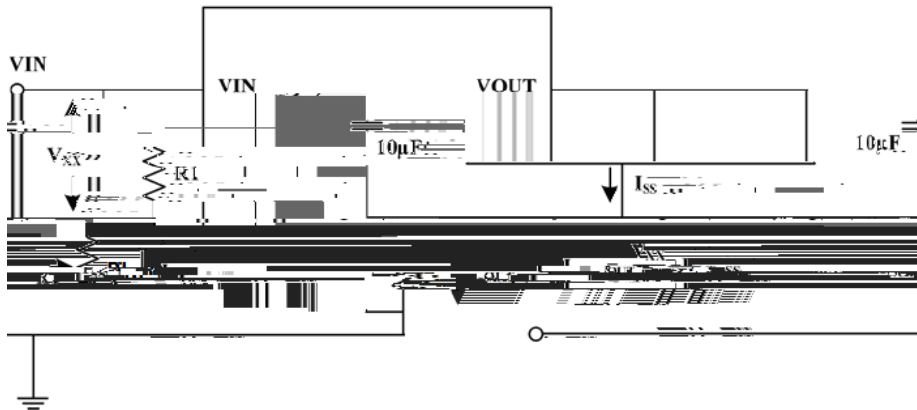
?è'• / Short-Circuit Protection



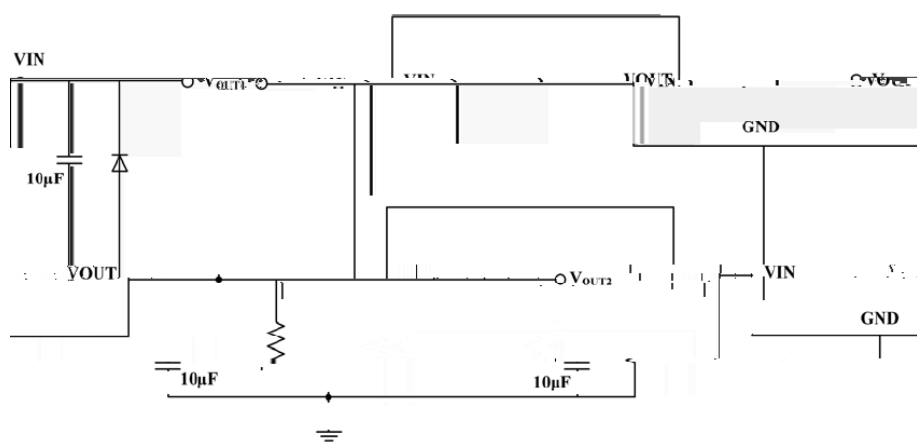
9 è / Circuit for Increasing Output Voltage



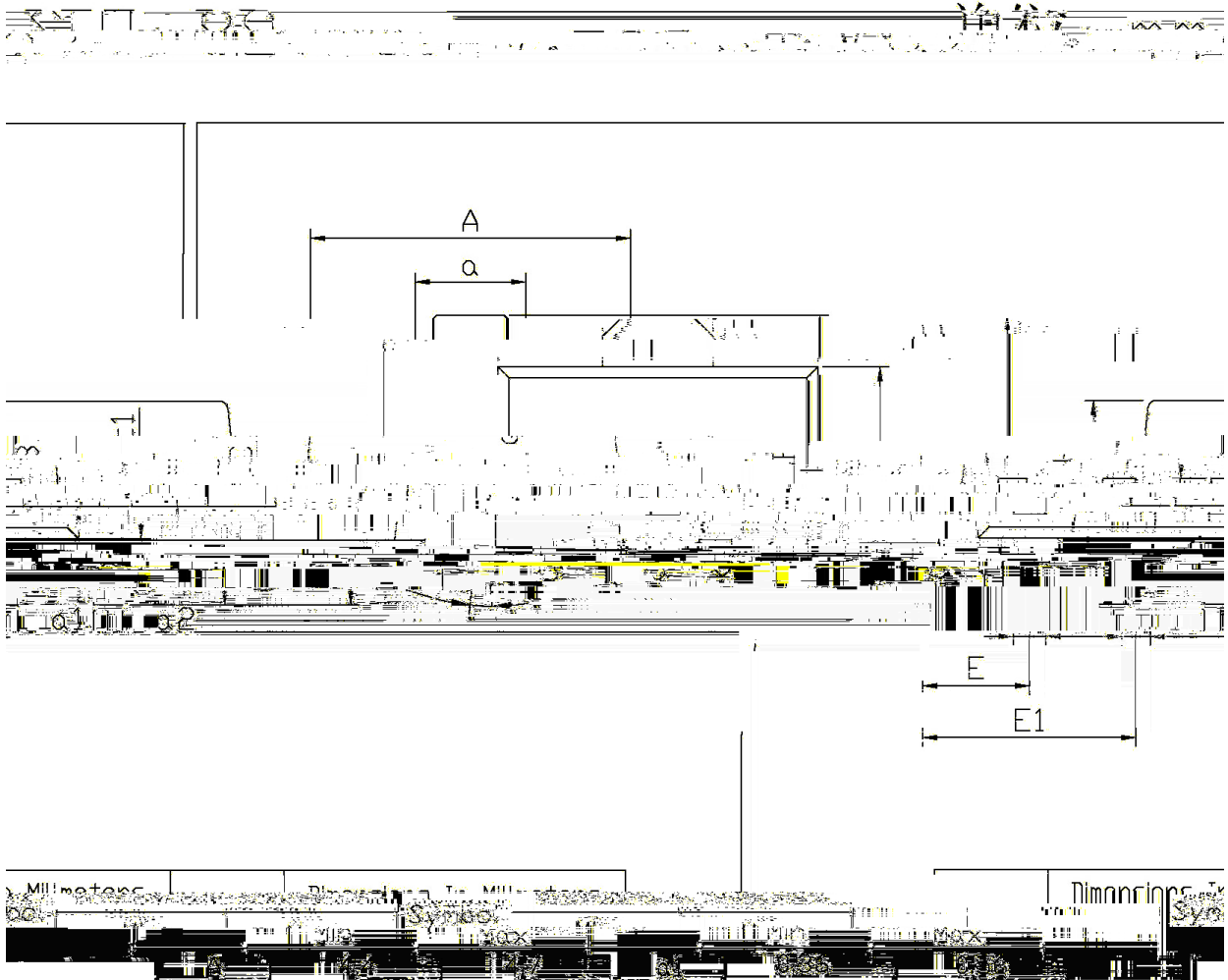
$\beta v^2 - \epsilon$ / Constant Current Regulator



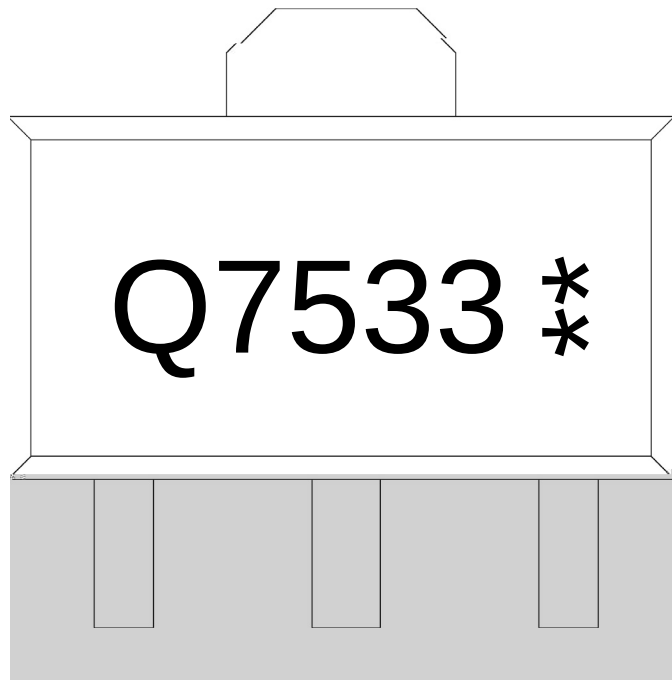
E ÿ ß è / Double Output Circuit



Ø □ =) ☎ / Package Dimensions



, M y f / Marking Instructions



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Note:

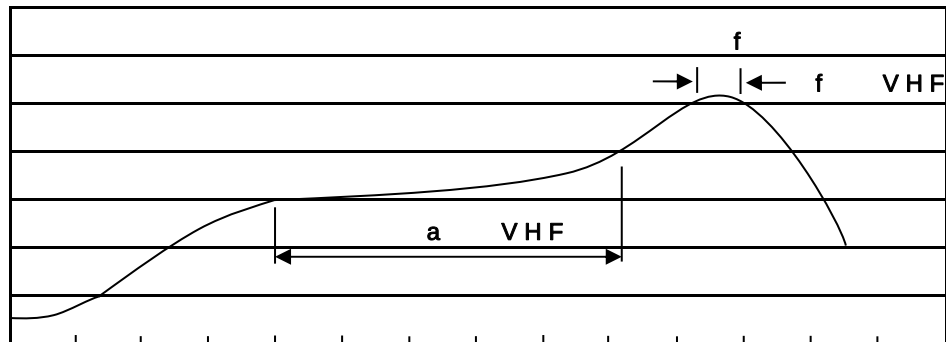
Q: Automobile halogen-free product Code

7533: Product Type

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

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KL RU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

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Note:

- 10• Ä ½ “† 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.
- 20• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
- 30•D N ò i Ò 0 ,† 2 ½10 - /sec. 3. Cooling Speed: 2~10 - /sec.

ÂD /Că p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ¯ E	Units ;>û !H					Dimension ;>û p . (unit /Æmm³)		
	Units/Reel / -	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box -	Outer Box 1ç
SOT-89	1,000	7	7,000	6	42,000	7 s ×12	180×120×180	390×385×205

„Đ y f / Notices