BRCO7533TAQ

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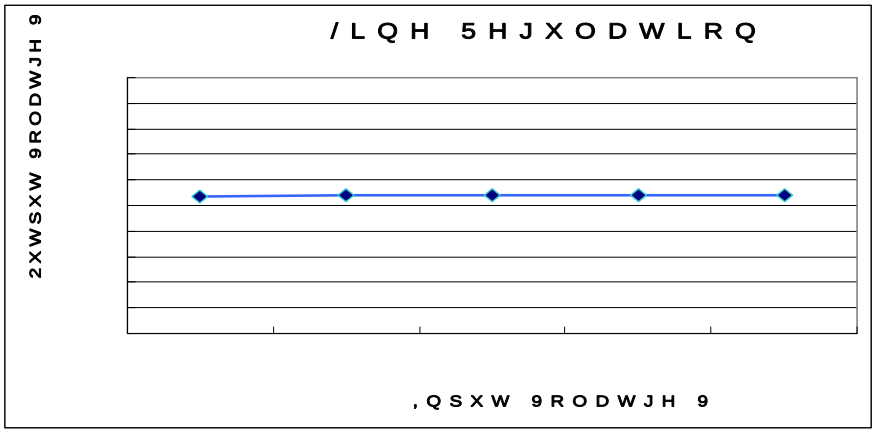
Notes: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If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

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › 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 ¡ ¿ ú Ú ^ … ÿ ß 9 ‘ 2% k 4 ž ÿ µ 9 y ÿ ß 9 [› z 9 [›l

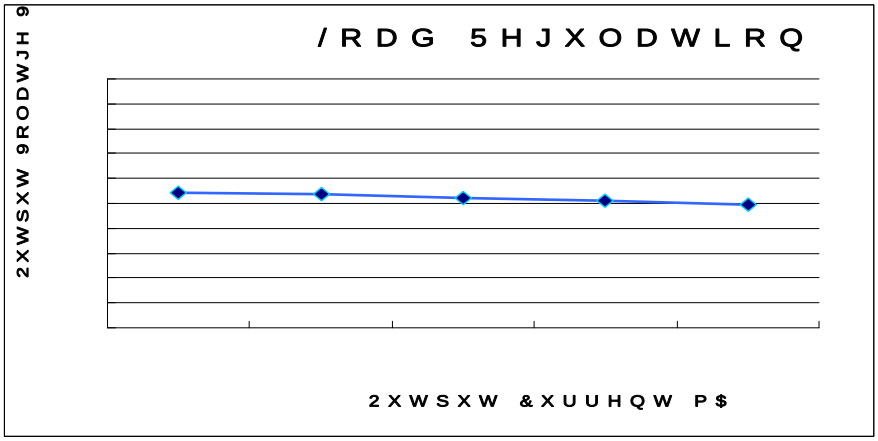
Ô ? d • Ž ¢ / Electrical Characteristic Curve

ÿ µ 9 ÿ ß 9 / The input voltage and output voltage



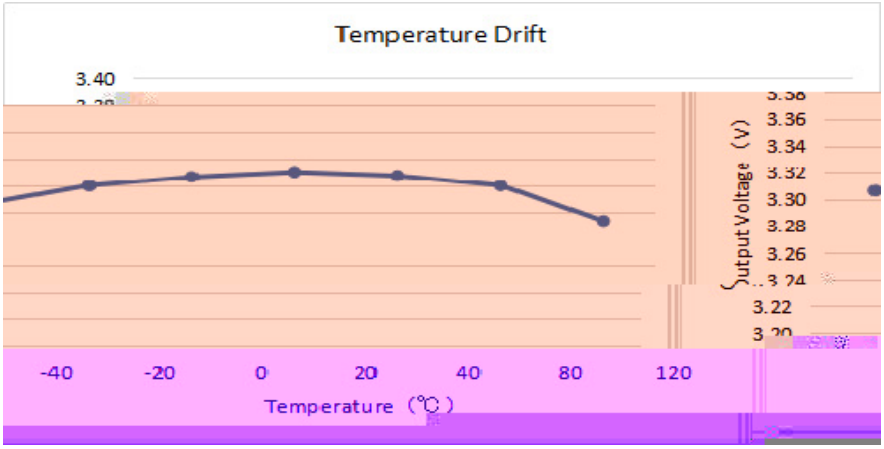
h y ¡ ¿ ú v IOUT=10mAož

ÿ ß 9 ¿ ú v / The output voltage and load current



h y ¡ ÿ µ 9 VIN=5.3Vož

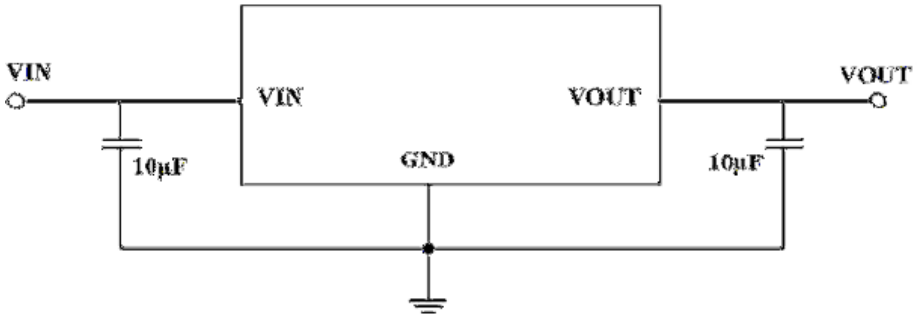
ÿ ß 9 “ † / The output voltage and temperature



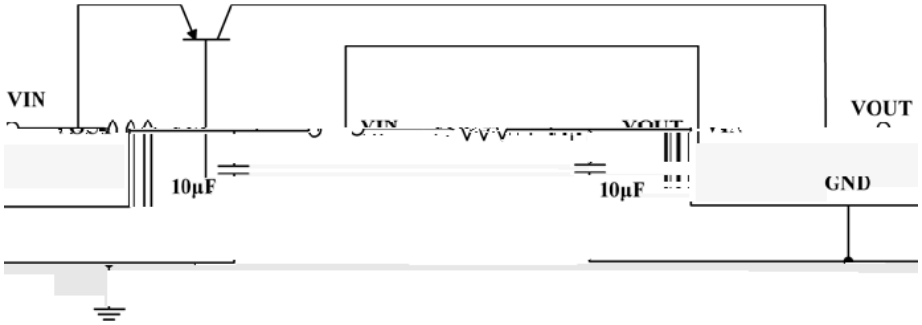
h y ¡ ¿ ú v IOUT=10mAož

À ¹ € Đ Ô · / Typical Application Circuit

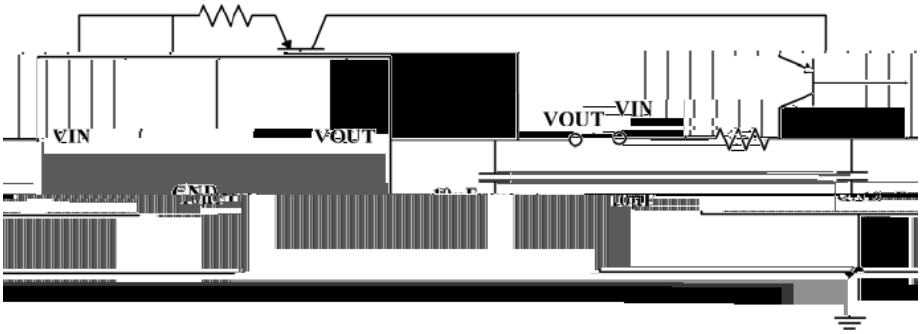
Â Î • / Basic Application



ÿ ß Ý v 9 ² - ˜ / High Output Current Voltage Regulator

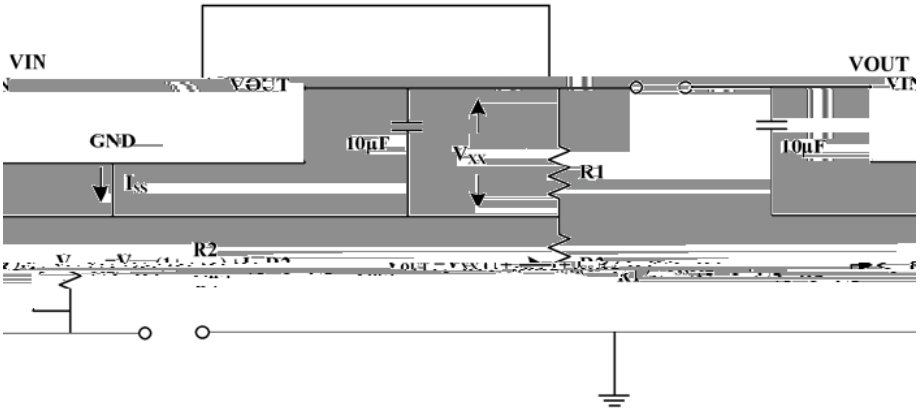


? è ‘ • / Short-Circuit Protection

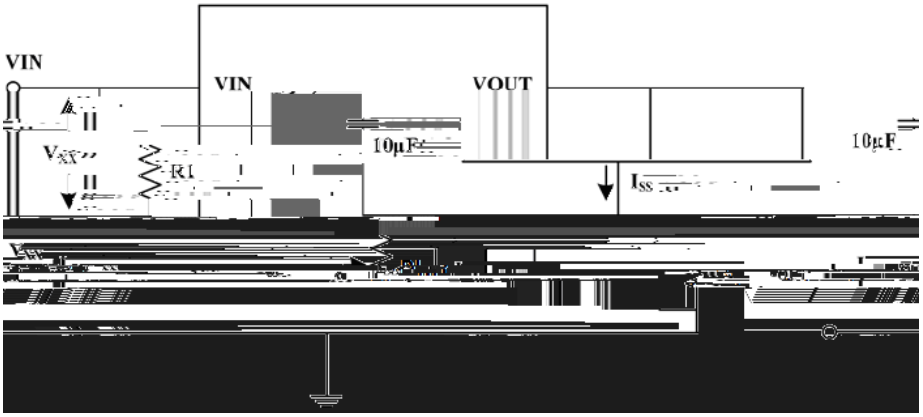


À ¹ € Đ Ô · / Typical Application Circuit

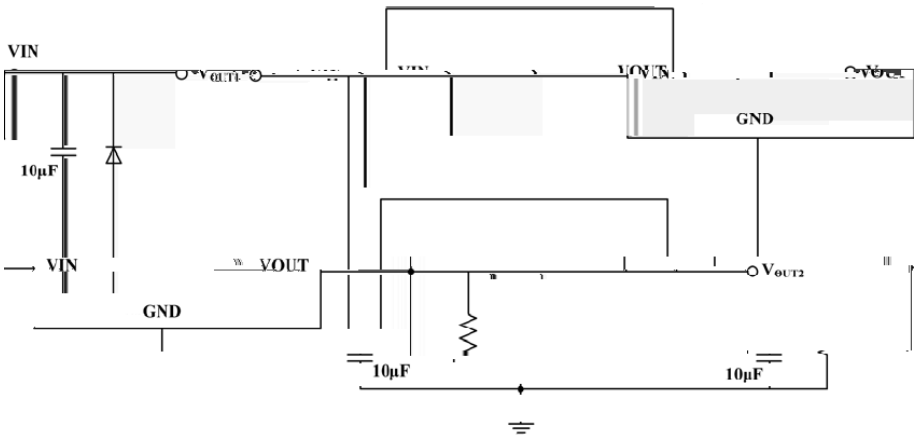
ÿ ß ä 9 è / Circuit for Increasing Output Voltage



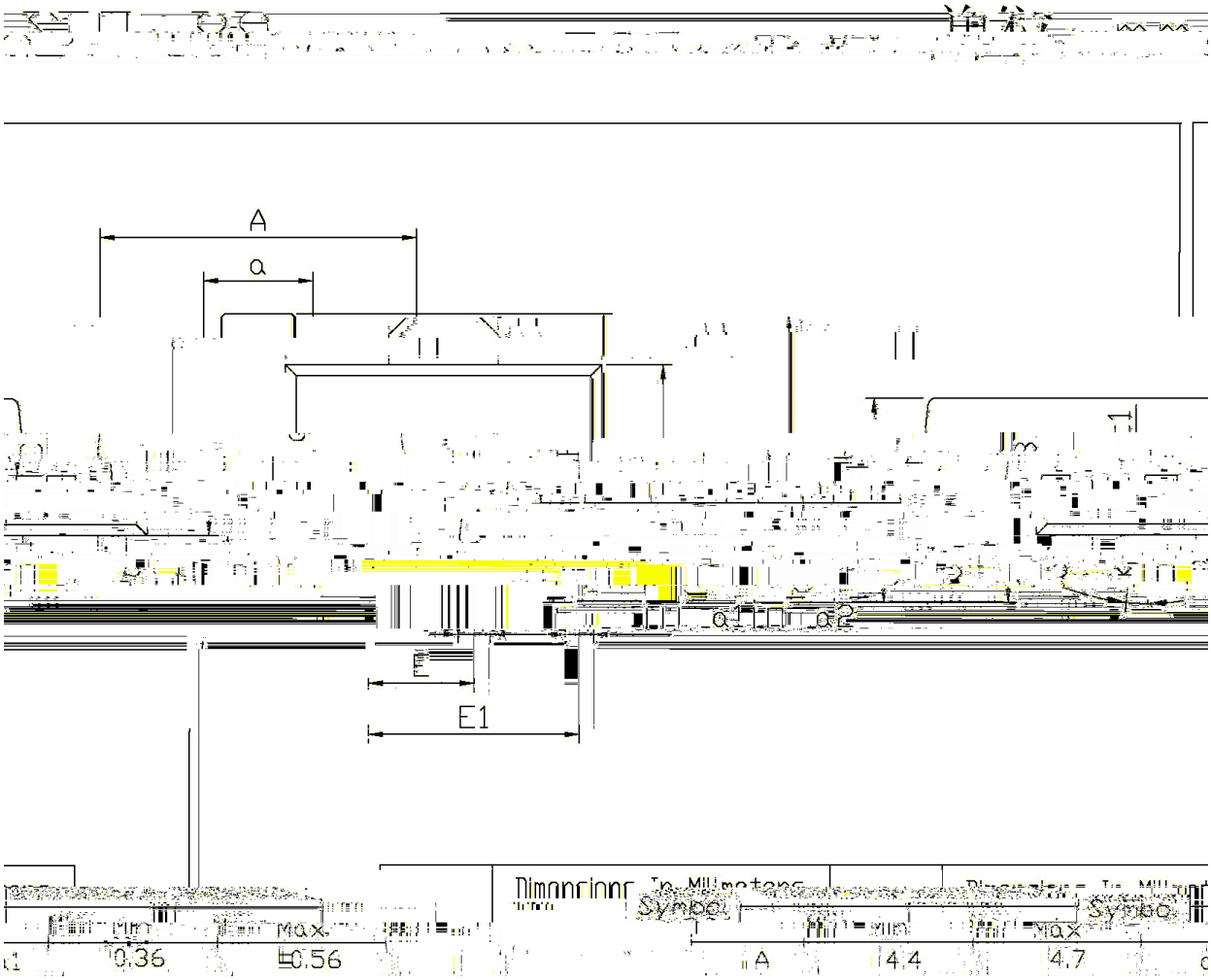
ÿ ß v ² - è / Constant Current Regulator



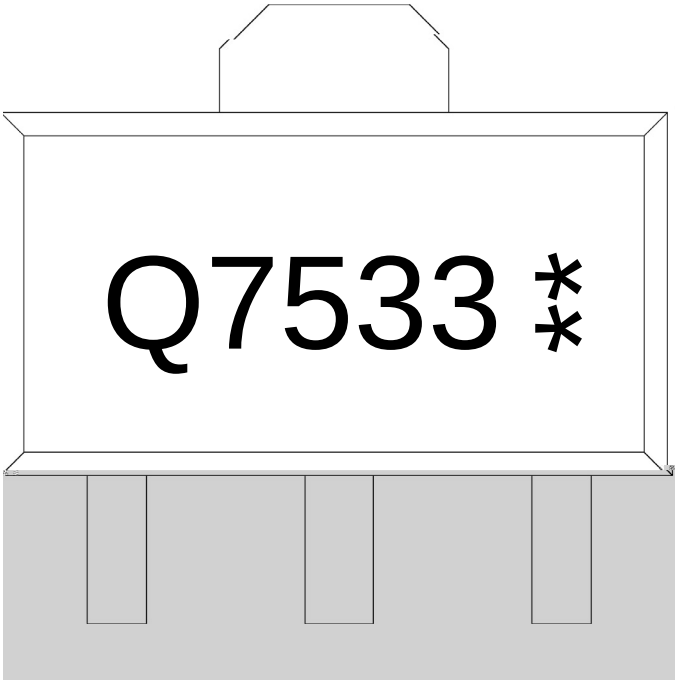
E ÿ ß è / Double Output Circuit



Ø ¤ =) ¢ / Package Dimensions



, M y ƒ / Marking Instructions



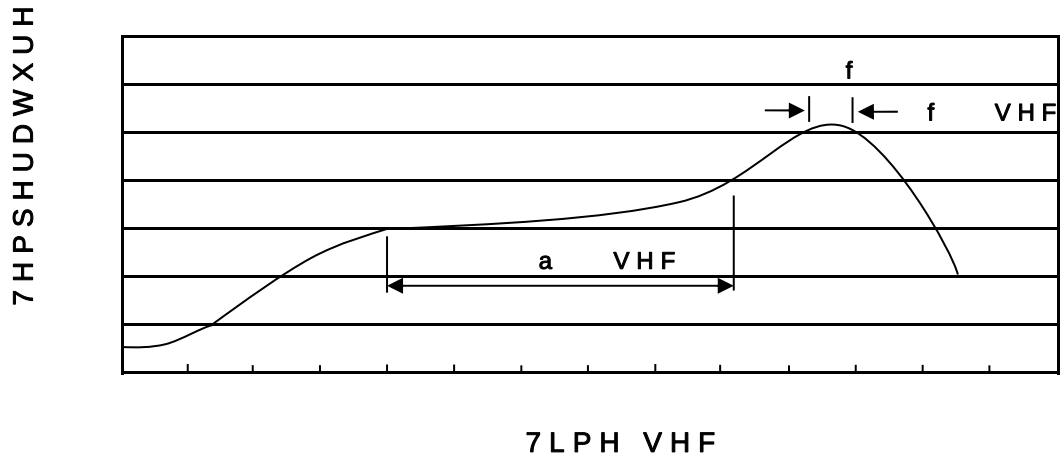
ª ¢ y

Q y	V ñ —)í D } ö œ
7533 y	º Z W A
y	ÿ D Z W A k š ÿ D Z J

Note:

Q:	Automobile halogen-free product Code
7533:	Product Type
**:	Lot No. Code, code change with Lot No

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



7LPH VHF

ª ¢ y

Note:

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;
1.Preheating:150~200 - , Time:60~120sec.

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;
2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 , † 2 ½10 - /sec.
3. Cooling Speed: 2~10 - /sec.

ÂD /Cã 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

„ Ð y ƒ / Notices