

● Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	VCC	-0.3 ~ +35 *1	V
Vc Pin voltage	VCTL	-0.3 ~ Vcc	V
Power dissipation	TO252-5	1300 *2	mW
	TO220FP-5(V5)	2000 *3	
Operating temperature range	Topr	-40 ~ +125	°C
Storage temperature range	Tstg	-55 ~ +150	°C
Junction temperature	Tjmax	150	°C
Peak supply voltage	VCCPeak	50 *4	V

*1 Do not however exceed Pd.

*2 Derating is done at 10.4mW/°C for operating above Ta=25°C

*3 Derating is done at 16mW/°C for operating above Ta=25°C

*4 Bias voltage in 200msec(tr≥1msec).

● Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Input voltage	VCC	4.0	-	25.0	V
Output current	Io	-	-	1.0	A
Output voltage	VOUT	3.0	-	15	V

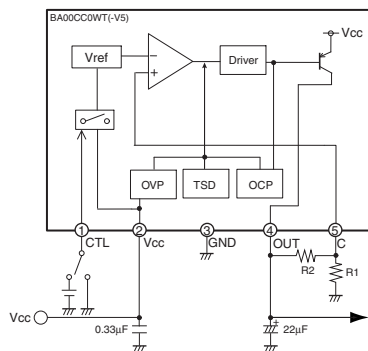
● Electrical Characteristics (Unless otherwise specified, Ta=25°C, Vcc=10V, Io=500mA, R1=2.2kΩ, R2=6.8kΩ)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Shut down current	I _{sd}	-	0	10	μA	V _{CTL} =0V
Bias current	I _b	-	2.5	5.0	mA	V _{CTL} =2V, I _o =0mA
C pin voltage	V _c	1.200	1.225	1.250	V	I _o =50mA
Output voltage	V _o	-	5.00	-	V	
Dropout voltage	ΔV _d	-	0.3	0.5	V	V _{cc} =0.95V _o
Peak output current	I _o	1.0	-	-	A	
Ripple rejection	R.R.	45	55	-	dB	f=120Hz, e _{in} =1V _{rms} , I _o =100mA
Line regulation	Reg.I	-	20	100	mV	V _{cc} =6 → 25V
Load regulation	Reg.L	-	50	150	mV	I _o =5mA → 1A
Temperature coefficient of output voltage *	T _{cv_o}	-	±0.02	-	% / °C	I _o =5mA, T _j =0~125°C
Short circuit output current	I _{os}	-	0.40	-	A	V _{cc} =25V
ON mode level	V _{thH}	2.0	-	-	V	ACTIVE MODE, I _o =0mA
OFF mode level	V _{thL}	-	-	0.8	V	OFF MODE, I _o =0mA
Input high current	I _{CTL}	100	200	300	μA	V _{CTL} =5V, I _o =0mA

* Designed Guarantee.(Outgoing inspection is not done all products.)

● Application Circuit

[BA00CC0WT(-V5)]



[BA00CC0WFP]

