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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Inverting Switching Regulator Controller BD9718G

The BD9718G is a high performance fixed frequency power switching regulator. This regulator was specifically designed to be incorporated for step-down and voltage inverting functions with a minimum number of external components.

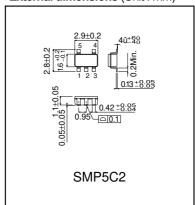
Applications

Pre-amplifier bias supply for hard disk drive (HDD), designs or other voltage inverter requirements.

Features

- 1) High-accuracy output voltage detection. (Vs= -5.00±1%)
- 2) High switching frequency (900kHz typ.)
- 3) Built-in soft start function. (No external components required.)
- 4) Timer latch type short protection function. (No external components required.)
- 5) Ultra small package: SMP5C2

●External dimensions (Unit : mm)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	Vcc	15 *	V
Power dissipation	Pd	170	mW
Operating temperature range	Topr	-40 to +85	°C
Storage temperature range	Tstg	-55 to +125	°C

^{*} Derating : 1.7mW/°C for operation above Ta=25°C.

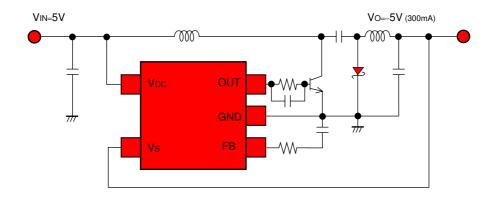
● Recommended operating conditions (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply voltage	Vcc	4	5	14	V

●Electrical Characteristics (Unless otherwise noted, Ta=25°C, V_{CC}=5V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Bias current	Icc	_	4.6	8	mA	V _{FB} =1V
Output sense voltage	Vs	-5.05	-5.00	-4.95	V	V _{FB} =0.75V
Switching frequency	Fosc	600	900	1200	kHz	V _{FB} =0.75V
Maxim ON duty cycle	Don	70	80	90	%	V _{FB} =1.0V
Output SAT voltage 1	Vsat1	_	30	150	mV	Іоит-=20mA, Vs=-5.5V
Output SAT voltage 2	Vsat2	Vcc-1	Vcc-0.8	1	V	louт+=20mA, Vs=-4.5V
UVLO threshold voltage	V uT	3.5	3.8	4.0	V	Vcc: sweep up

Application circuit



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