

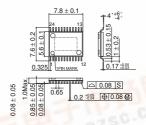
03W209A

2ch switching regulator controller BD9851EFV

Description

BD9851EFV is a 2 channel DC/DC switching regulator controller. Switching of step-down and step-up for channel1 can be managed by setting pin. Channel 2 is available for step-down and inversion, suitable for various applications. This IC is available for 3MHz of switching frequency by high-speed driver technology and provides power configuration with space saving.

Dimension (Unit : mm)



HTSSOP-B20

Features

- 1) Built-in 2 channels for switching of step-down/step-up and step-down/inversion
- 2) FET (Nch/Pch) direct drive
- 3) 3MHz switching frequency available (Variable externally) JUN DISG.COM
- 4) Power package of HTSSOP-B20
- 5) Built-in standby function

Applications

TFT panel, TA/router, digital household appliances

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	20	V
Power dissipation	Pd	1000 *	mW
Operating temperature range	Topr	− 40 ~ +85	°C
Storage temperature range	Tstg	− 55 ~ +150	°C

^{*}Derating: 8.0mW/°C for operation above Ta=25°C

Recommended Operating Conditions (Ta=25°C)

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Parameter	Symbol	Min.	Тур.	Max.	lax. Unit	
Power supply voltage	Vcc	4	12	18	V	
Oscillating frequency	fosc	10	300	3000	kHz	

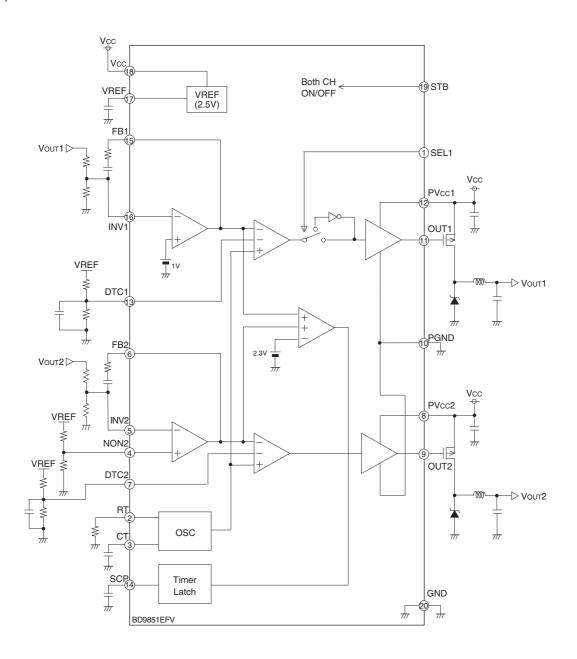
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● Electrical characteristics (Unless otherwise noted: Ta=25°C, Vcc=12V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
VREF output voltage	VREF	2.475	2.500	2.525	V	Io=-0.1mA
Oscillating frequency	fosc	270	300	330	kHz	RT=24kΩ, CT=220pF
Error amplifier threshold voltage	VINV	0.98	1.00	1.02	V	
Gate drive ON resistance	Ron	-	2.5	-	Ω	
Low current consumption	lcc	-	2.5	_	mA	STB=3V

Application Circuit



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