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DC/DC converter step-up

BP5326

Suitable for LCD panels, tuner power supply. Only additional electrolysis capacitor, the source of step-up power supply can be constituted easily.

Applications

LCD panel, Tuner.

Features

1) High conversion efficiency.

- 2) Built-in protection circuit.
- 3) Built-in ON / OFF switch.
- 4) Compact and light.

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	VIN	7	V
Operating temperature range	Topr	-10 to 60	°C
Storage temperature range	Tstg	-30 to +85	°C
Maximum Output current	lomax	25	mA

•Block diagram





BP5326

Power Module

Din	description	20
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Pin No.	Pin name	Function		
1	Co	Output smoothing capacitor connection pin ; connect a low-impedance capacitor with a recommended capacitance of 47μ F between this and GND.		
2	Vout	Output pin.		
3	Vref	Output voltage adjustment pin for contrast ; output voltage is adjusted by connecting a resistor between pins 2 and 3 or pins 3 and 4.		
4, 7	GND	Ground pin.		
8	Vctl	Output ON/OFF control pin ; output starts when the pin is HIGH level, and stops when the pin is LOW or OPEN.		
9	Vin	Input pin ; connect a low-impedance capacitor with a recommended capacitance of 100µF between this pin and GND.		

●Electrical characteristics (Unless otherwise noted, Ta=25°C, Viv=5V, Io=20mA, VcriL=5V, R1 to R2 resistors are disconnected)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VIN	4.5	5.0	5.5	V	_
Output current	Іоит	_	_	25	mA	_
Output voltage	Vout1	28.0	29.5	31.0	V	VIN=4.5 to 5.5V, IOUT=0 to 25mA
Output voltage when OFF	Vout2	-	-	0.3	V	VIN=4.5 to 5.5V, VCTL=0V
Ripple noise voltage	ບ1	-	100	200	mV _{P-P}	_ *
Efficiency	η	67	77	-	%	-
ON / OFF CTL voltage when ON	Vctl	1.5	-	_	V	Vo>28V
ON / OFF CTL voltage when OFF	VCTL	_	-	0.5	v	Vo<0.3V, Altematively, when OPEN
ON / OFF CTL input current	Іст∟	-	-	500	μΑ	Vctl=1.5V
Current consumption when OFF	IOFF	_	_	50	μA	Vctl=0V

* Measured with a band width of 20 MHz.

Measurement circuit / Application example





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Power Module

• Electrical characteristics curves

- (1) Place I / O external capacitors as near as possible to the connection pins. In particular make sure to minimize the impedance between the input-side capacitor (C1) and pin9. A length less than 50mm is recommended for a copper foil of 1.0mm wide 35µm trick.
- (2) Avoid frequent switching using the ON / OFF CTL pin (five times per second at the maximum).
- (3) R1 and R2 resistors, which are used for changing the output voltage, are usually not required.





•External dimensions (Unit : mm)



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