

STRUCTURE Silicon Monolithic Integrated Circuit

NAME OF PRODUCT DC-AC Inverter Control IC

TYPE BD9897FS

FUNCTION • 36V High voltage process

• 1ch control with Full-Bridge

- · Lamp current and voltage sense feed back control
- · Sequencing easily achieved with Soft Start Control
- Short circuit protection with Timer Latch
- Under Voltage Lock Out
- Mode-selectable the operating or stand-by mode by stand-by pin
- Synchronous operating the other BD9897FS IC's
- BURST mode controlled by PWM and DC input
- Output liner Control by external DC voltage

OAbsolute Maximum Ratings ($Ta = 25^{\circ}C$)

Parameter	Symbol	Limits	Unit	
Supply Voltage	Vcc	36	V	
BST pin	BST 40		V	
SW pin	SW	36	V	
BST-SW voltage difference	BST-SW	7	V	
Operating Temperature Range	Topr	-40 ~ +85	°C	
Storage Temperature Range	Tstg	−55~+150	°C	
Maximum Junction Temperature	Tjmax	+150	°C	
Power Dissipation	Pd	950*	mW	

^{*}Pd derate at 7.6mW/°C for temperature above Ta = 25°C (When mounted on a PCB 70.0mm \times 70.0mm \times 1.6mm)

OOperating condition

Parameter	Symbol	Limits	Unit
Supply voltage	Vcc	7. 5 ~ 30. 0	٧
BST voltage	BST	4.0~36.0	٧
BST-SW voltage difference	BST-SW	4.0~6.5	٧
CT oscillation frequency	fст	60~180	kHz
BCT oscillation frequency	fвст	0.05~1.00	kHz

Status of this document

The Japanese version of this document is the official specification.

Please use the translation version of this document as a reference to expedite understanding of the official version.

If these are any uncertainty in translation version of this document, official version takes priority.



O Electric Characteristics (Ta=25 $^{\circ}$ C, VCC=24V)

Name	MAX. 13 30.0 VCC 0.8 6.3 0.43 2.321 0.122 5.92 1.65/(RT*5) lact×41 2.2 0.60 1.6 200	MA μ A V V V μ A	Conditions CT_SYNC_IN = OPEN System O N System O F F VCC>7. 0V	
Operating current	30. 0 VCC 0. 8 6. 3 0. 43 2. 321 0. 122 5. 92 - 1. 65/(RT*5) lact×41 2. 2 0. 60 1. 6 200	μ A V V V V V V MA A A V V	System O N System O F F VCC>7.0V	
Stand-by current Icc2	30. 0 VCC 0. 8 6. 3 0. 43 2. 321 0. 122 5. 92 - 1. 65/(RT*5) lact×41 2. 2 0. 60 1. 6 200	μ A V V V V V V MA A A V V	System O N System O F F VCC>7.0V	
((STAND BY CONTROL)) Stand-by voltage H	VCC 0.8 6.3 0.43 2.321 0.122 5.92 - 1.65/(RT*5) lact×41 2.2 0.60 1.6 200	V V V V V V MA A A V V V	System OFF VCC>7. 0V	
Stand-by voltage H	0.8 6.3 0.43 2.321 0.122 5.92 1.65/(RT*5) lact×41 2.2 0.60 1.6 200	V V V V V MA A A V V V	System OFF VCC>7. 0V	
Stand-by voltage L	0.8 6.3 0.43 2.321 0.122 5.92 1.65/(RT*5) lact×41 2.2 0.60 1.6 200	V V V V V MA A A V V V	System OFF VCC>7. 0V	
((UVLO BLOCK)) Operating voltage (VCC) Deprating voltage (UVLO) Deprating voltage (UVLO) Worlo2 2.179 2.25 Hesteresis width (UVLO) ((REG BLOCK)) REG output voltage WREG 5.68 EG output voltage REG source current ((REG BLOCK)) Regative edge setting current IREG 20.0 — ((REG BLOCK)) Regative edge setting current Ineg Iact ×29 Iact ×35 OSC Max voltage VOSCH 1.8 2.0 OSC Min voltage VOSCH 1.8 Soft start current ISS 0.6 I.1 SRT ON resistance ((BOSC BLOCK)) BOSC Max voltage VBCTH I.94 2.00 SOSC Min voltage VBCTH I.94 2.00 SOSC Min voltage VBCTH I.94 I.95/BRT I.5/RT I.5/RT I.5/RT BOSC frequency ((FEED BACK BLOCK)) IS threshold voltage 1 VIS(1) I. 1.225 I. 250 IS source current 2 IIS1 IS source current 1 IS source current 2 IIS2 32 50 VS Source current 1 IS source current 2 IIS2 32 50 VS Source current 1 IS source current 2 IIS2 32 50 VREFIN 0.6 — VREFIN 0.7 IS COMP detect voltage 2 VISCOMP(2) ———————————————————————————————————	6. 3 0. 43 2. 321 0. 122 5. 92 	V V V V MA	VCC>7. OV	
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REG Source current IREG 20.0	1. 65/(RT*5) lact × 41 2. 2 0. 60 1. 6 200 2. 06	MA A V V		
((OSC BLOCK)) Active edge setting current lact 1.35/(RT*7) 1.5/(RT*6)	1act × 41 2. 2 0. 60 1. 6 200	A A V V		
Active edge setting current	1act × 41 2. 2 0. 60 1. 6 200	A V V		
Negative Section Sec	1act × 41 2. 2 0. 60 1. 6 200	A V V		
OSC Max voltage	2. 2 0. 60 1. 6 200 2. 06	V		
Note	0. 60 1. 6 200 2. 06		fCT=120kHz	
Soft start current ISS	1. 6 200 2. 06		fCT=120kHz	
SRT ON resistance RSRT	200	μM		
((BOSC BLOCK))	2. 06	Ω	+	
BOSC Max voltage		31.		
BOSC Min voltage		٧	fBCT=0. 3kHz	
BOSC constant current BCT 1.35/BRT 1.5/RT	0.00			
BOSC frequency	0. 60	٧	fBCT=0. 3kHz	
((FEED BACK BLOCK)) IS threshold voltage 1 VIS① 1.225 1.250 IS threshold voltage 2 VIS② — VREFIN VS threshold voltage VVS 1.220 1.250 IS source current 1 IIS1 — — IS source current 2 IIS2 32 50 VS source current IVS — — IS COMP detect voltage ① VISCOMP① 0.90 0.94 IS COMP detect voltage ② VISCOMP② — VREFIN × 0.73 VREF input voltage range (OUTY BLOCK)) VREFIN	1. 65/RT	A	VBCT=0. 2V	
Sthreshold voltage 1	309	Hz	(BRT=33k Ω BCT=0. 048 μ F)	
VISCO VREFIN				
Is threshold voltage 2	1. 275	٧		
State Stat	VIS①	V	VREF applying voltage	
Is source current 1		-	VICE apprying vortage	
IS source current 2	1. 280	V		
VS Output IVS	0. 9	μA	DUTY=2. 2V	
IS COMP detect voltage (1)	68	μA	DUTY=0V IS=0.5V	
IS COMP detect voltage	0. 9 0. 98	μ A V	VREFIN≧1. 25V	
VREF input voltage range VREFIN 0.6 — ((DUTY BLOCK)) High voltage VDUTY-OUTH 2.8 3.1 Low voltage VDUTY-OUT SULVE — — DUTY-OUT sink resistance RDUTY-OUTSink — — DUTY-OUT source resistance RDUTY-OUTSouce — 250 ((OUTPUT BLOCK)) LN output sink resistance RsinkLN 0.75 1.5 LN output source resistance RsourceLN 2.5 5 HN output sink resistance RsinkHN 1.25 2.5 HN output sink resistance RsinkHN 1.25 2.5 HN output sink resistance RsinkHN 1.25 2.5 MAX DUTY MAX DUTY 46.0 48.0 OFF period TOFF 100 200 Drive output frequency FOUT 58.5 60.0	0.90	V	VREFIN<1. 25V	
((DUTY BLOCK)) High voltage VDUTY-OUTH 2.8 3.1 Low voltage VDUTY-OUTL - - DUTY-OUT sink resistance RDUTY-OUTSink - 150 DUTY-OUT source resistance RDUTY-OUTSouce - 250 ((OUTPUT BLOCK))	1. 6	V	No effect at VREF>1.25V	
High voltage	1.0	•	NO CITCOL AL VILLI > 1. 20V	
Low voltage VDUTY-OUTL — — DUTY-OUT sink resistance RDUTY-OUTSink — 150 DUTY-OUT source resistance RDUTY-OUTSource — 250 ((OUTPUT BLOCK)) — *** *** LN output sink resistance RsinkLN 0.75 1.5 *** LN output source resistance RsourceLN 2.5 5 *** HN output sink resistance RsinkHN 1.25 2.5 *** HN output source resistance RsourceLN 2.5 5 *** MAX DUTY MAX DUTY 46.0 48.0 OFF period TOFF 100 200 Drive output frequency FOUT 58.5 60.0 **	3. 4	٧	Т	
DUTY-OUT source resistance RDUTY-OUTSouce — 250 ((OUTPUT BLOCK)) LN output sink resistance RsinkLN 0.75 1.5 LN output sink resistance RsourceLN 2.5 5 HN output sink resistance RsinkHN 1.25 2.5 HN output source resistance RsourceLN 2.5 5 MAX DUTY MAX DUTY 46.0 48.0 OFF period TOFF 100 200 Drive output frequency FOUT 58.5 60.0	0. 5	٧	1	
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MAX DUTY MAX DUTY 46.0 48.0 OFF period TOFF 100 200 Drive output frequency FOUT 58.5 60.0	5. 0	Ω	VBST-VSW=5. 0V	
OFF period TOFF 100 200 Drive output frequency FOUT 58.5 60.0	10	Ω	VBST-VSW=5. 0V	
Drive output frequency FOUT 58.5 60.0	49. 5	%	FOUT=60kHz	
	400 61. 5	ns kHz	(RT=4. 7k Ω CT=235pF)	
((TIMER_LATCH_BLOCK))	01.0	κΠΖ	(N1-4. /N St. 01-250PF)	
Timer Latch setting voltage VCP 1.94 2.0	2. 06	٧	1	
Timer Latch setting vortage Vol 1. 34 2. 0 Timer Latch setting current ICP 0. 40 0. 55	0. 70	μΑ	+	
((COMP CLOCK))			_1	
COMP1 over voltage detect voltage VCOMPH 2.460 2.485	2. 510	٧	VSS>2. 2V	
COMP2 over voltage detect voltage VCOMP2_H 2.460 2.485		V	VSS>2. 2V	
COMP2 under voltage detect voltage ① VCOMP_L_1 1.225 1.25	2. 510	V	VSS>2. 2V	
COMP2 under voltage detect voltage ② VCOMP_L_2 0.606 0.625	1. 275	V	VSS < 2. 2V	
((Synchronous Block))			_	
High voltage VCT_SYNCH 2.8 3.1	1. 275 0. 644	V		
Low voltage VCT_SYNCL	1. 275 0. 644 3. 4	٧		
CT_SYNC sink resistance RCT_SYNC_SYNC - 150	1. 275 0. 644			
CT_SYNC source resistance RCT_SYNC_SOURCE - 370	1. 275 0. 644 3. 4 0. 5 300	Ω		
High voltage input range VCT_SYNC_IN_H 2.0 — Low voltage input range VCT_SINK_IN_L -0.3 —	1. 275 0. 644 3. 4 0. 5	Ω Ω V	i contract of the contract of	

(This product is not designed to be radiation-resistant.)

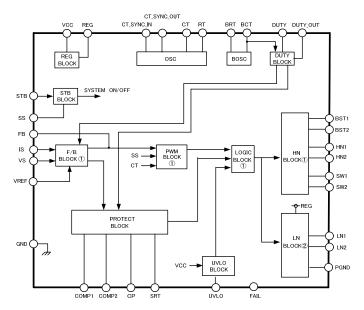


OPackage Dimensions

BD9897FS BD9897FS Lot No.

SSOP-A32 (Unit:mm)

OBlock Diagram



OPin Description

	PIN No.	PIN NAME	FUNCTION	
	1	PGND	Ground for FET drivers	
	2	LN2	NMOS FET driver	
	3	HN2	NMOS FET driver	
	4	SW2	Lower rail voltage for HN2 output	
	5	BST2	Boot-Strap input for HN2 output	
	6	CT_SYNC_IN	CT synchronous signal input pin	
,	7	CT_SYNC_OUT	CT synchronous signal output pin	
	8	SRT	External resistor from SRT to RT for adjusting the triangle oscillator	
	9	RT	External resistor from SRT to RT for adjusting the triangle oscillator	
	10	СТ	External capacitor from CT to GND for adjusting the triangle oscillator	
	11	GND	GROUND	
	12	BCT	External capacitor from BCT to GND for adjusting the BURST triangle oscillator	
	13	BRT	External resistor from BRT to GND for adjusting the BURST triangle oscillator	
	14	DUTY	Control PWM mode and BURST mode	
	15	DUTY_OUT	BURST signal output pin	
	16	STB	Stand-by switch	
	17	СР	External capacitor from CP to GND for Timer Latch	
	18	FAIL	COMP2 under voltage protect clock output	
	19	VREF	Reference voltage input pin for Error amplifier	
	20	VS	Error amplifier input	
	21	IS	Error amplifier input	
	22	FB	Error amplifier output	
23		SS	External capacitor from SS to GND for Soft Start Control	
	24	COMP2	Under, over voltage detect pin	
	25	COMP1	Over voltage detect pin	
	26	VCC	Supply voltage input	
	27	UVL0	External Under Voltage Lock Out	
		REG	Internal regulator output	
		BST1	Boot-Strap input for HN1 output	
	30	SW1	Lower rail voltage for HN1 output	
	31	HN1	NMOS FET driver	
	32	LN1	NMOS FET driver	



ONOTE FOR USE

- 1. When designing the external circuit, including adequate margins for variation between external devices and IC. Use adequate margins for steady state and transient characteristics.
- 2. The circuit functionality is guaranteed within of ambient temperature operation range as long as it is within recommended operating range. The standard electrical characteristic values cannot be guaranteed at other voltages in the operating ranges, however the variation will be small.
- 3. Mounting failures, such as misdirection or miscounts, may harm the device.
- 4. A strong electromagnetic field may cause the IC to malfunction.
- 5. The GND pin should be the location within $\pm 0.3V$ compared with the PGND pin.
- 6. BD9897FS incorporate a built-in thermal shutdown circuit (TSD circuit). The thermal shutdown circuit (TSD circuit) is designed only to shut the IC off to prevent runaway thermal operation. It is not designed to protect the IC or guarantee its operation of the thermal shutdown circuit is assumed.
- 7. Absolute maximum ratings are those values that, if exceeded, may cause the life of a device to become significantly shortened. Moreover, the exact failure mode caused by short or open is not defined. Physical countermeasures, such as a fuse, need to be considered when using a device beyond its maximum ratings.
- 8. About the external FET, the parasitic Capacitor may cause the gate voltage to change, when the drain voltage is switching. Make sure to leave adequate margin for this IC variation.
- 9. On operating Slow Start Control (SS is less than 2.2V), It does not operate Timer Latch.
- 1 O. By STB voltage, BD9897FS are changed to 2 states. Therefore, do not input STB pin voltage between one state and the other state $(0.8 \sim 2.0 \text{V})$.
- 1 1. The pin connected a connector need to connect to the resistor for electrical surge destruction. This IC is a monolithic IC which (as shown is Fig-1) has P⁺ substrate and between the various pins. A P-N junction is formed from this P layer of each pin. For example, the relation between each potential is as follows.
 - O (When GND > PinB and GND > PinA, the P-N junction operates as a parasitic diode.)
 - O (When PinB > GND > PinA, the P-N junction operates as a parasitic transistor.)

Parasitic diodes can occur inevitably in the structure of the IC. The operation of parasitic diodes can result in mutual interference among circuits as well as operation faults and physical damage. Accordingly you must not use methods by which parasitic diodes operate, such as applying a voltage that is lower than the GND (P substrate) voltage to an input pin.

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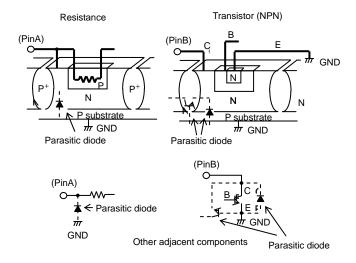


Fig-1 Simplified structure of a Bipolar IC

Notes

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