AC/DC Converter Controller Application Information
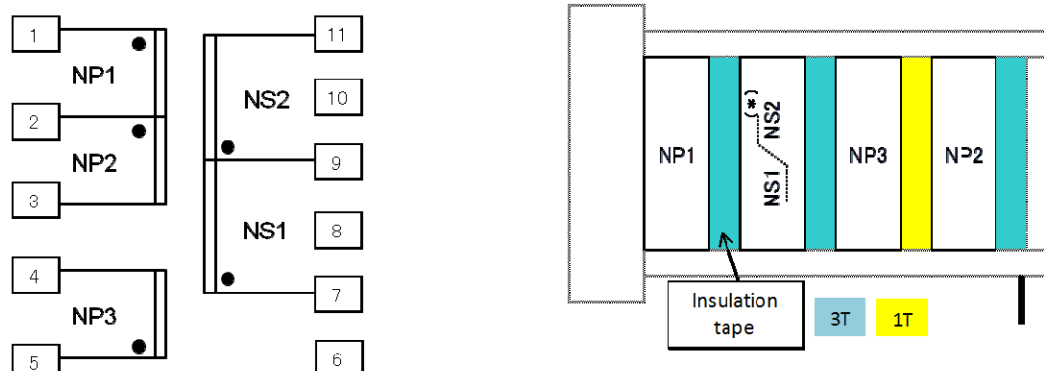
IC Product Name	BM2P054F
Control Method	PWM
Input	85 Vac to 276 Vac
Output	5V 0.3A
Type	Isolation
Document Number	W-I-0500030-0000-00
Revision	001

Reference Circuit

W-I-0500030-0000-00

7.Mar.2014
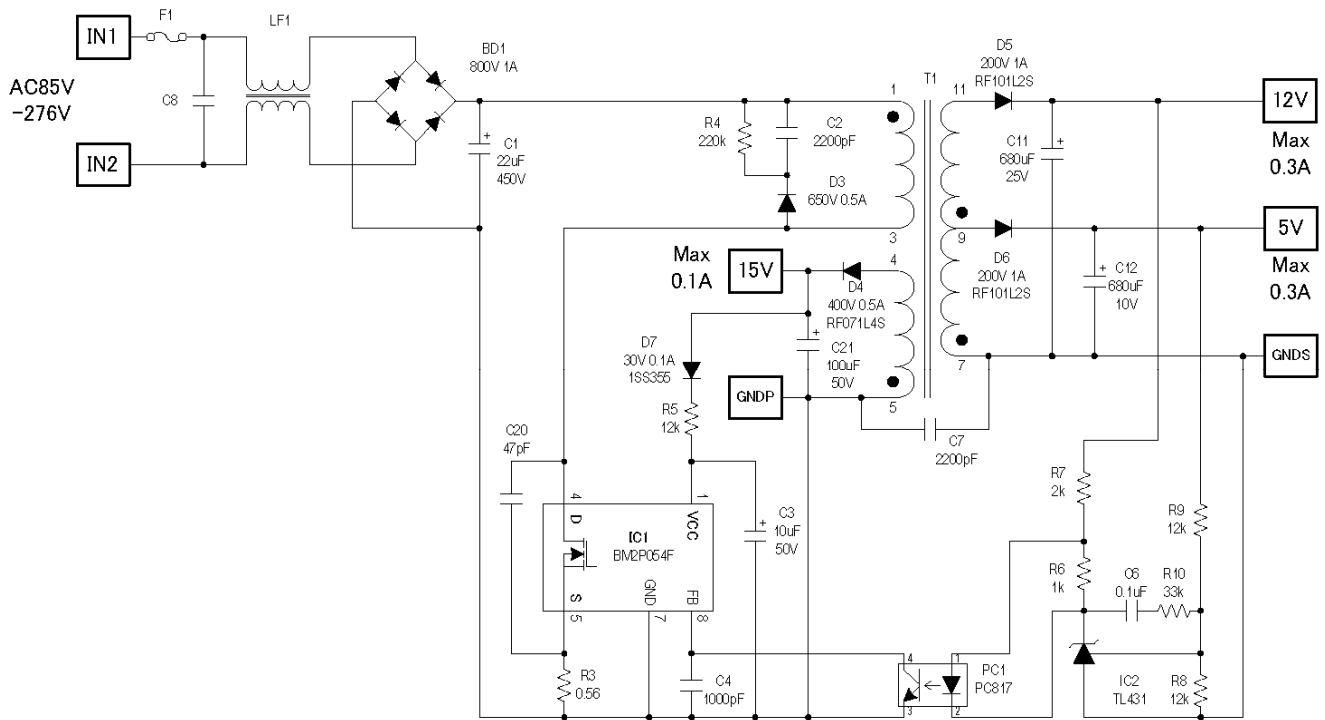
Transformer Specification

Core: JFE MB3 EI25D or compatible
Bobbin: JFE BE25PP11 Vertical/Terminal Pins 5-6(11pins) or compatible
AL-Value: 199.4 nH/N^2
Inductance(2-1pin): 0.319 mH±15%

（＊）NS1、NS2巻線は同一層にして下さい。

Coil	Terminal	Turns	Wire	Winding Method
NP1	'1-2	20	2UEW 0.4	1 Layer FIT
NS1	'7-9	5	TEX-E 0.5	1 Layer FIT
NS2	'9-11	7	TEX-E 0.5	1 Layer FIT
NP3	'5-4	19	2UEW 0.4	1 Layer FIT
NP2	'2-3	20	2UEW 0.4	1 Layer FIT

耐圧 P-S : AC3.0KVrms 1MIN. 2mA or AC3.6kVrms 1s 2mA
PS-CORE: AC1.5KVrms 1MIN. 2mA or AC1.8kVrms 1s 2mA
IR : P-S, PS-CORE 100 MΩ MIN. at DC 500V

巻始め：バリアテープ固定
巻終り：直角引き出し挟み込み処理

Bill of Materials

Item	Spec	Parts name	Maker
C1	22uF/450V	VR 10uF 450V x 2	Nichicon
C2	2200pF/500V	CK45-B3AD222KY*N	TDK
C3	10uF/50V	PJ 10uF 50V	Nichicon
C4	1000pF/16V		Murata
C6	0.1F/25V		Murata
C7	2200pF/AC250V	CS11-E2GA222MYNS	TDK
C8		LE104	Okaya
C11	680uF/25V Low-Z	KZM 680uF 25V	Nippon Chemi-con
C12	680uF/25V Low-Z	KZM 680uF 25V	Nippon Chemi-con
C20	47pF/1kV	CC45SL3AD470JYGN	TDK
C21	100uF/50V Low-Z	VR 220uF 50V	Nichicon
BD1	800V/1A	D1VBA80	Shindengen
D3	FRD 650V/0.5A	RF1L7S	Rohm
D4	FRD 400V/0.5A	RF071L4S	Rohm
D5	FRD 200V/1A	RF101L2S	Rohm
D6	SBD 90V/1A	RF101L2S	Rohm
D7	30V/0.1A	1SS355/1SS355VM	Rohm
F1		3.15A	
LF1		UF1717V-103YR25	TDK
IC1		BM2P054F	Rohm
IC2		TL431	
PC1		PC817	SHARP
R3	0.56Ω/0.5W	MCREZHFLR560	Rohm
R4	220kΩ/025W	MCR25JZHJ224	Rohm
R5	12kΩ	MCR10EZPJ123	Rohm
R6	1kΩ	MCR10EZPJ102	Rohm
R7	2kΩ	MCR10EZPJ202	Rohm
R8	12kΩ	MCR10EZPF1202	Rohm
R9	12kΩ	MCR10EZPF1202	Rohm
R10	33kΩ	MCR10EZPJ333	Rohm
T1	EI25		Tomita

Revision History

Date	Revision	Changes
7.Mar.2014	001	New Release

W-I-0500030-0000-00
7.Mar.2014

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JAPAN	USA	EU	CHINA
CLASSⅢ	CLASSⅢ	CLASS Ⅱ b	CLASSⅢ
CLASSⅣ		CLASSⅢ	

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