

AB-46 DVD Applications

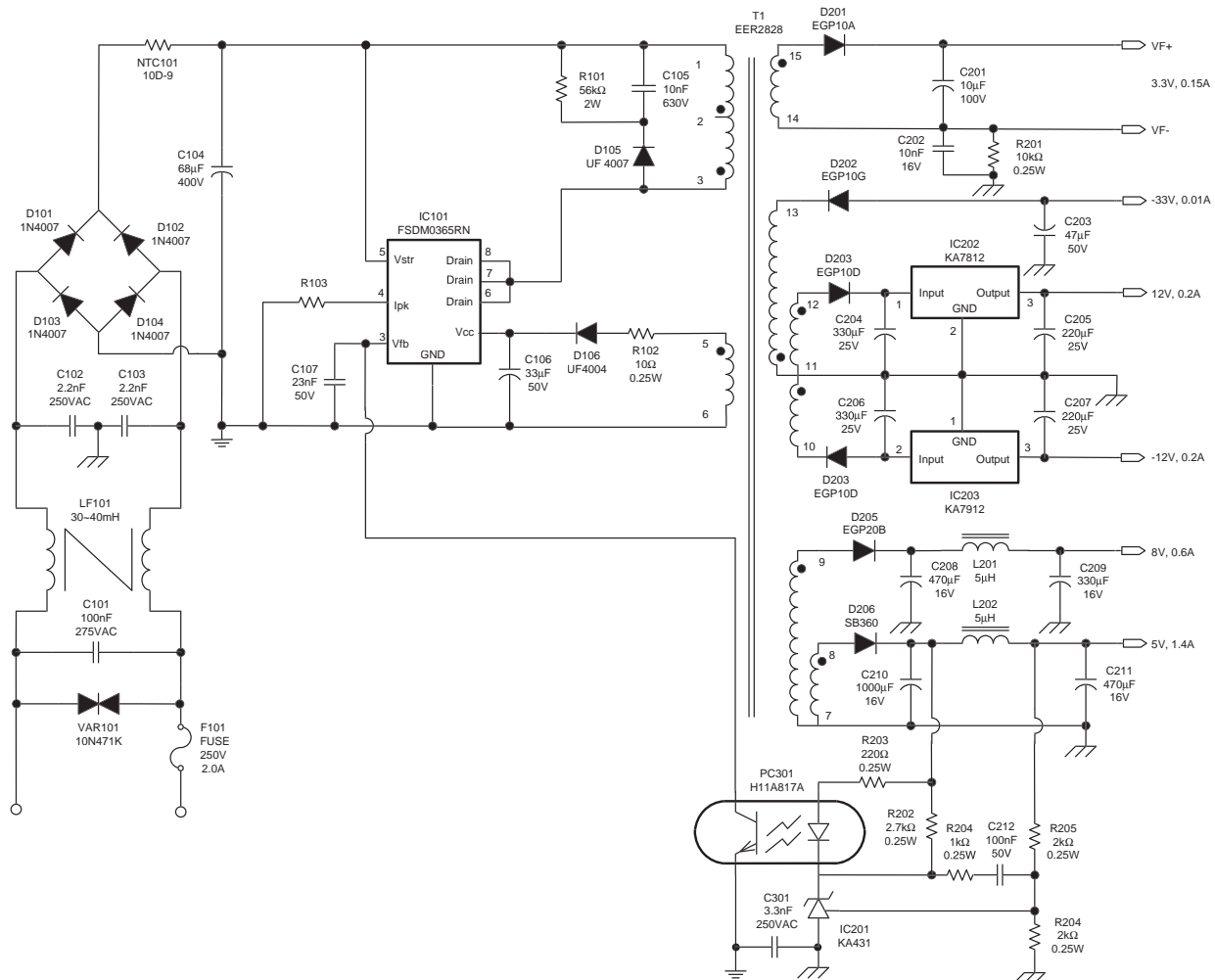
DV-17W-FSDM0365RN – 17 Watts

Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
DVD Player	FSDM0365RN	85–265 Vdc	17W	3.3V (0.15A) VFL -33V (0.01A) +12V (0.2A) -12V (0.2A) +8V (0.6A) +5V (1.4A)

Features

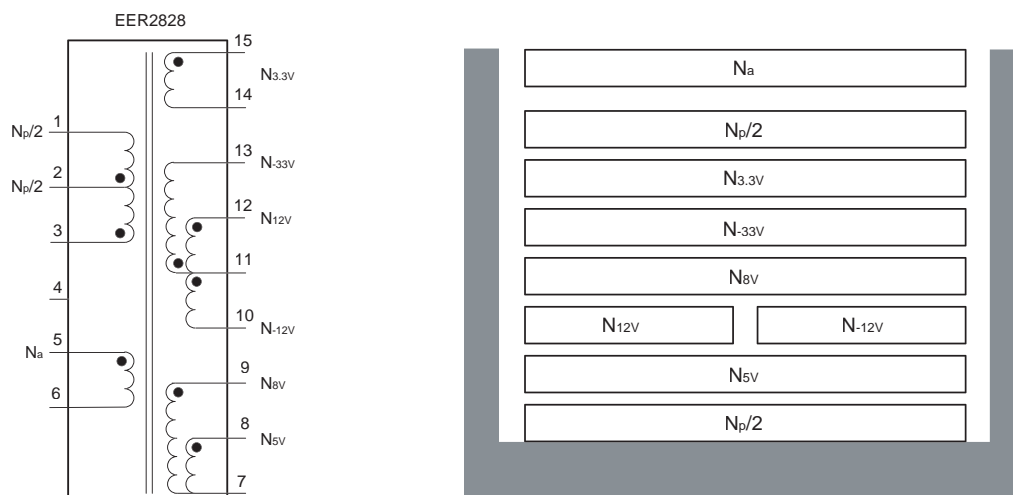
- Low EMI through frequency modulation
- Internal soft-start
- Low power consumption in the standby (under 1W at 240Vac input and 5V/80mA output condition)
- Various Protection functions against over load, over voltage, over current and over temperature.

1. Schematic Diagram



2. Transformer

2.1. Transformer Schematic Diagram



2.2. Winding Specification

	Pin (S → F)	Wire	Turns	Winding Method
$N_p/2$	3 → 2	0.25Φ x 1	44	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 3 Layers				
N_{5V}	8 → 7	0.4Φ x 2	4	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 1 Layers				
N_{12V}	12 → 11	0.25Φ x 1	11	Solenoid winding
N_{-12V}	11 → 10	0.25Φ x 1	11	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 1 Layers				
N_{8V}	9 → 7	0.4Φ x 1	6	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 1 Layers				
N_{-33V}	13 → 11	0.3Φ x 1	24	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 1 Layers				
$N_{3.3V}$	15 → 14	0.3Φ x 1	3	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 3 Layers				
$N_p/2$	2 → 1	0.25Φ x 2	22	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 2 Layers				
N_a	5 → 6	0.3Φ x 1	11	Solenoid winding
Outer Insulation: Polyester Tape t = 0.050mm, 3 Layers				

Core: EE2828 ($A_e = 82.1 \text{ mm}^2$)

Bobbin: EE2828 (H)

2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–3	1 mH	1 kHz, 1V
Leakage	1–3	20 μH	Short all other pins

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