

AB-55 Set Top Box Applications

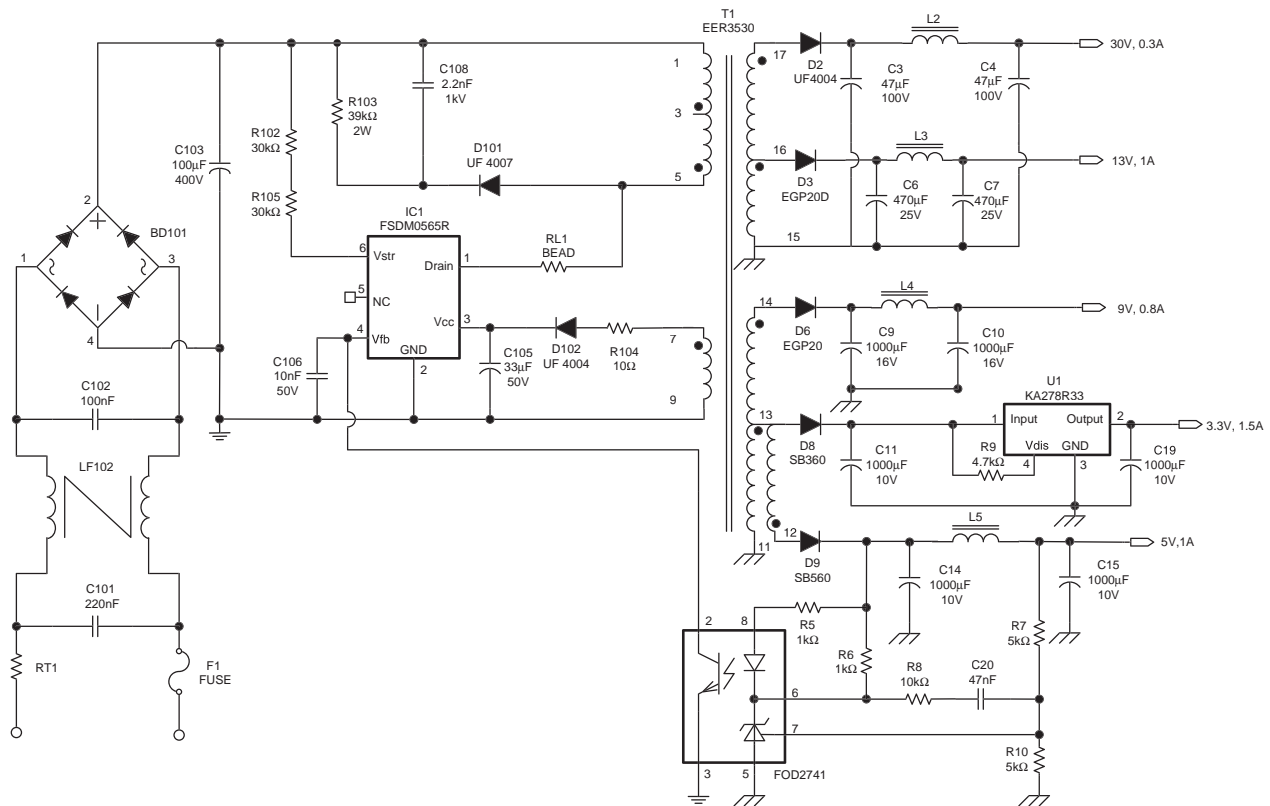
ST-40W-FSDM0565 – 40 Watts

Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
Set Top Box	FSDM0565R	85–265 Vac	40W	3.3V (1.5A) 5.0V (1.0A) 9.0V (0.8A) 13V (1.0A) 30V (0.3A)

Features

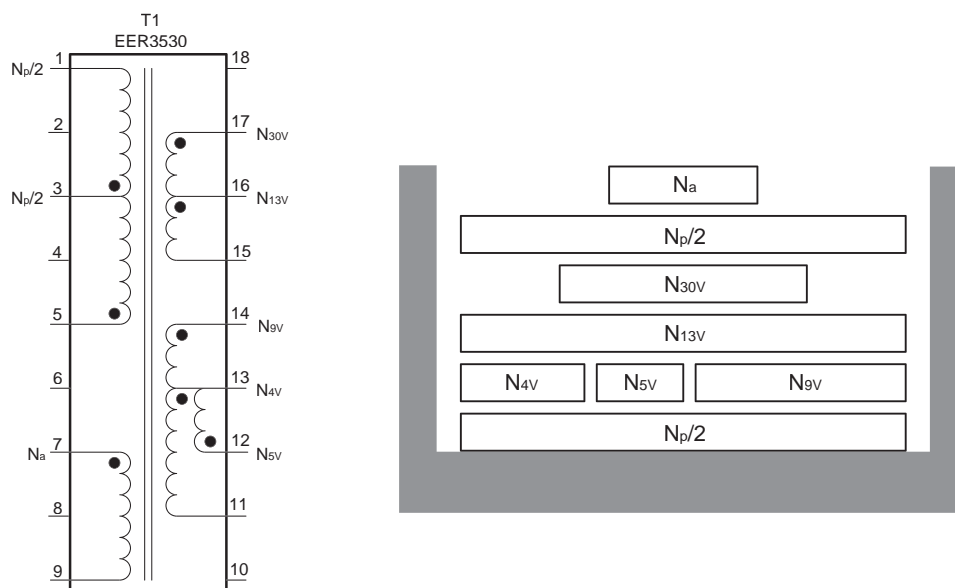
- High efficiency (>77%) with universal range input.
- Internal soft-start
- Low power consumption in standby (<1W at 240Vac input and 5V/80mA output)
- Various Protection functions against over load, over voltage, over current and over temperature.

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 → 1	0.45Φ x 1	28	Solenoid winding
N _{4V}	13 → 11	0.45Φ x 3	3	Solenoid winding
N _{5V}	12 → 13	0.45Φ x 1	1	Solenoid winding
N _{9V}	14 → 13	0.45Φ x 1	4	Solenoid winding
N _{13V}	16 → 15	0.45Φ x 2	10	Solenoid winding
N _{30V}	17 → 16	0.45Φ x 1	13	Solenoid winding
N _{p/2}	5 → 3	0.45Φ x 1	28	Solenoid winding
N _a	7 → 9	0.45Φ x 1	10	Solenoid winding

Core: EER3530 (A_e = 109.4 mm²)

Bobbin: EER3530

2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–5	850 μH	10 kHz, 1V
Leakage	1–5	8 μH	Short all other pins

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