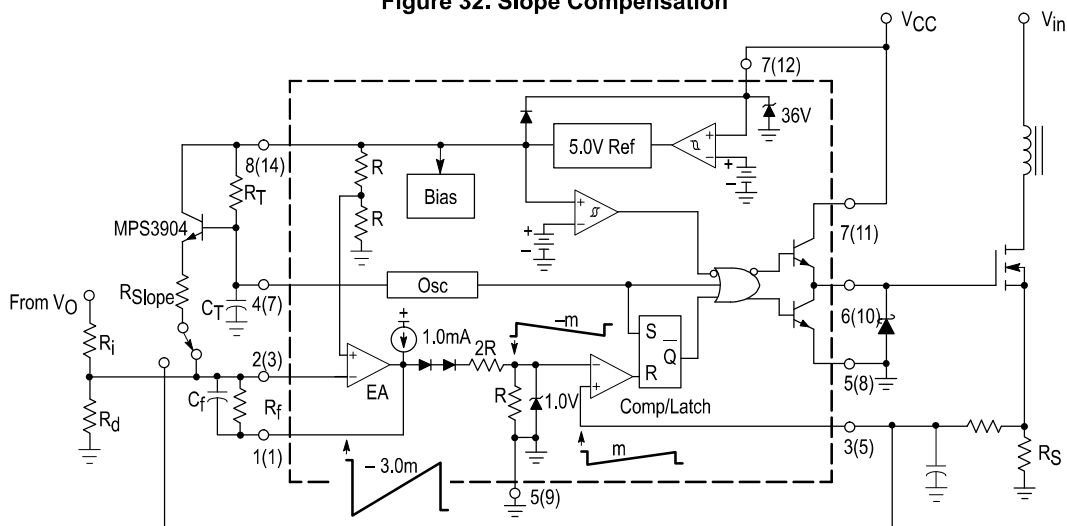


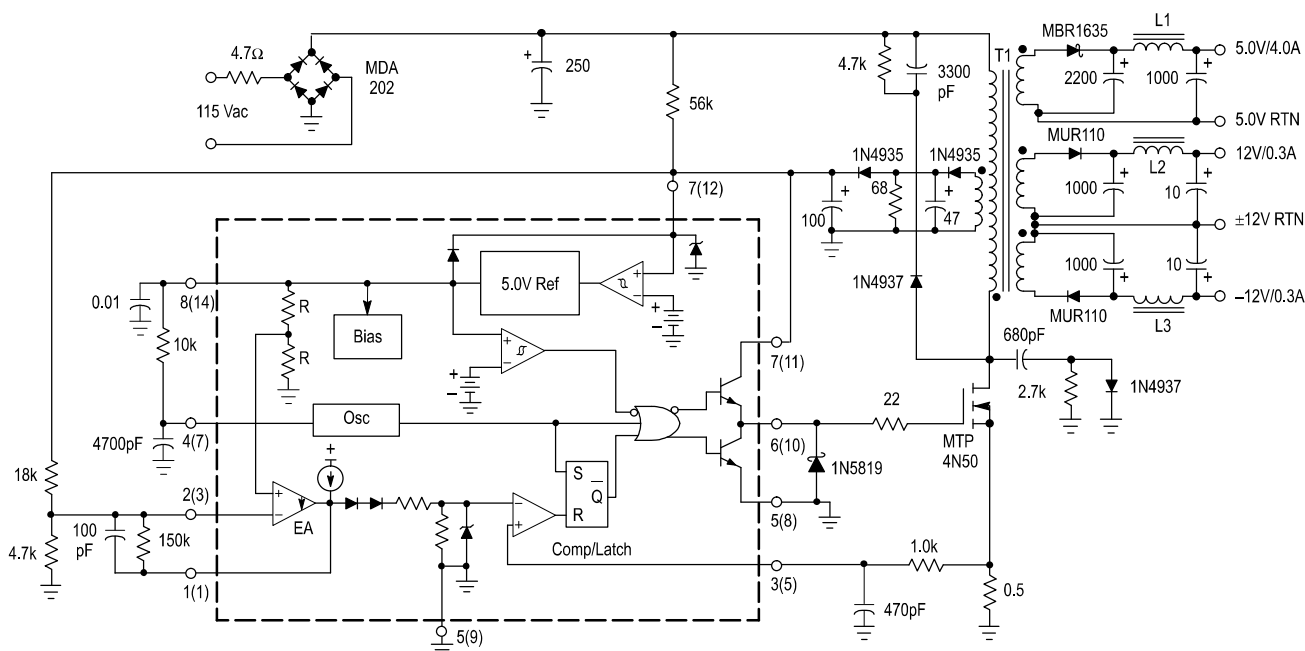
UC3842B, 43B UC2842B, 43B

Figure 32. Slope Compensation



The buffered oscillator ramp can be resistively summed with either the voltage feedback or current sense inputs to provide slope compensation.

Figure 33. 27 W Off-Line Flyback Regulator



L1 - 15 μ H at 5.0 A, Coilcraft Z7156
L2, L3 - 25 μ H at 5.0 A, Coilcraft Z7157

Test	Conditions	Results
Line Regulation: 5.0 V \pm 12V	$V_{in} = 95$ to 130 Vac	$\Delta = 50$ mV or $\pm 0.5\%$ $\Delta = 24$ mV or $\pm 0.1\%$
Load Regulation: 5.0 V \pm 12V	$V_{in} = 115$ Vac, $I_{out} = 1.0$ A to 4.0 A $V_{in} = 115$ Vac, $I_{out} = 100$ mA to 300 mA	$\Delta = 300$ mV or $\pm 3.0\%$ $\Delta = 60$ mV or $\pm 0.25\%$
Output Ripple: 5.0 V \pm 12V	$V_{in} = 115$ Vac	40 mV _{pp} 80 mV _{pp}
Efficiency	$V_{in} = 115$ Vac	70%

All outputs are at nominal load currents, unless otherwise noted

T1 - Primary: 45 Turns #26 AWG
Secondary ± 12 V: 9 Turns #30 AWG (2 Strands) Bifilar Wound
Secondary 5.0 V: 4 Turns (six strands) #26 Hexfilar Wound
Secondary Feedback: 10 Turns #30 AWG (2 strands) Bifilar Wound
Core: Ferroxcube EC35-3C8
Bobbin: Ferroxcube EC35PCB1
Gap: ≈ 0.10 " for a primary inductance of 1.0 mH