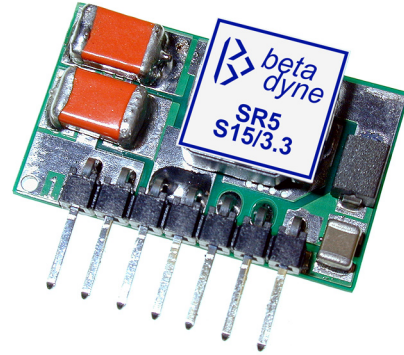


Key Features

- P_{sw} @ 100kHz, 50% Duty Cycle
- 100% Load Regulation
- 100µA Standby Current
- 100µs Load Regulation
- 100µs Load Regulation
- 100µs Load Regulation
- 100µs Load Regulation
- 100µs Load Regulation



Beta Dyne is protected under various patents, including but not limited to U.S. Patent numbers: 5,777,519; 6,188,276; 6,262,901; 6,452,818; 6,473,3171.

Applications

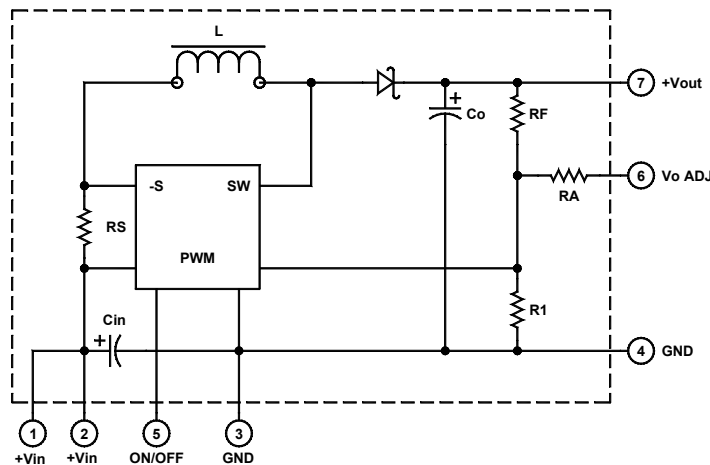
• 100µA Standby Current

• 100µs Load Regulation

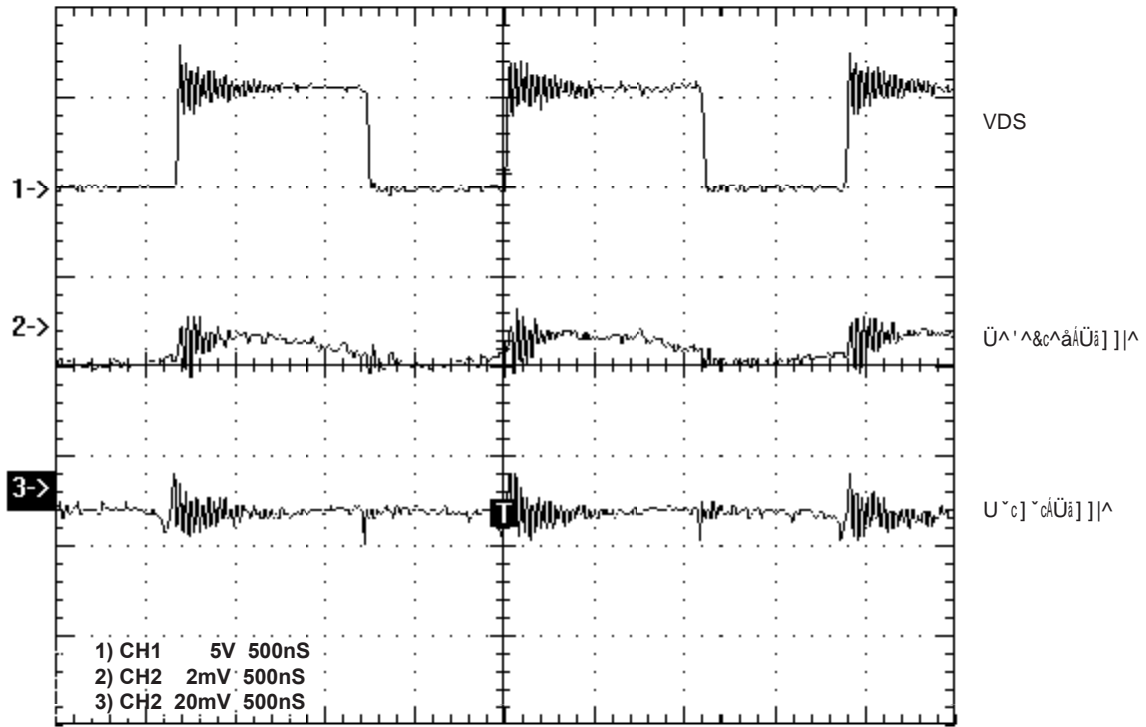
• 100µs Load Regulation

Functional Description

The SR5 is a step-up switching regulator that converts an input voltage (V_{IN}) to a higher output voltage (V_{OUT}). The device is designed for a 5W output power and operates from an input voltage range of 2.5V to 5V. The output voltage is adjustable via a resistor divider network (R_A, R_F) connected to the Vo ADJ pin. The device includes a soft-start circuit (C_{in}) and a shutdown pin (ON/OFF) for power management. The output is filtered by a capacitor (C_o) and a resistor (R_F).



Typical Block Diagram



HK I WTG'40"Kprw"tgIgevgf"tkrrnglqwrw"tkrrng

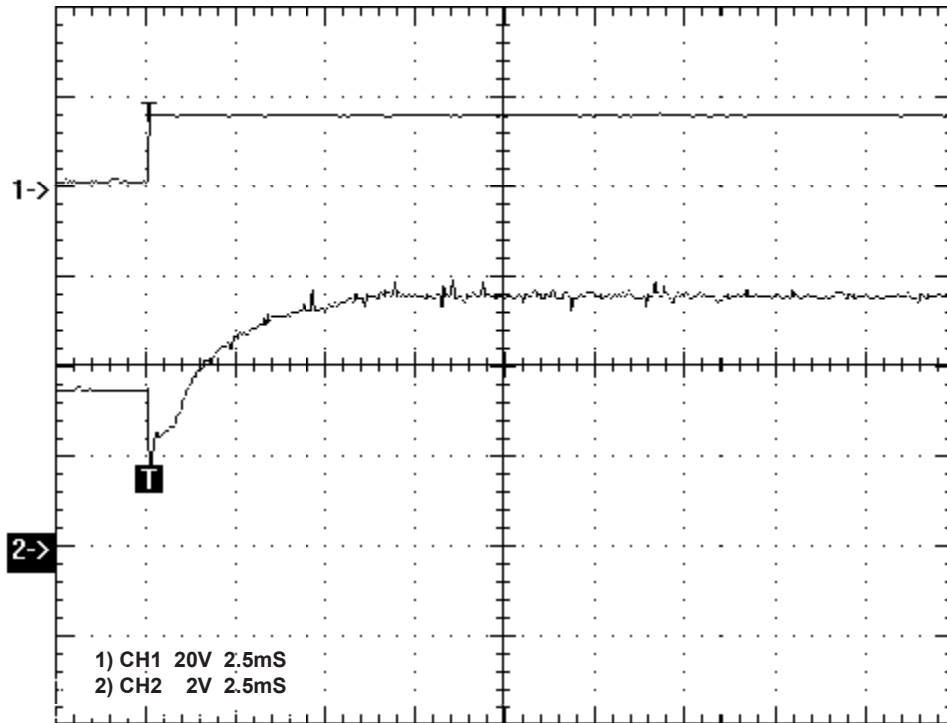


FIGURE 3. Turn on delay, V_o fully loaded (SS5/3.3)

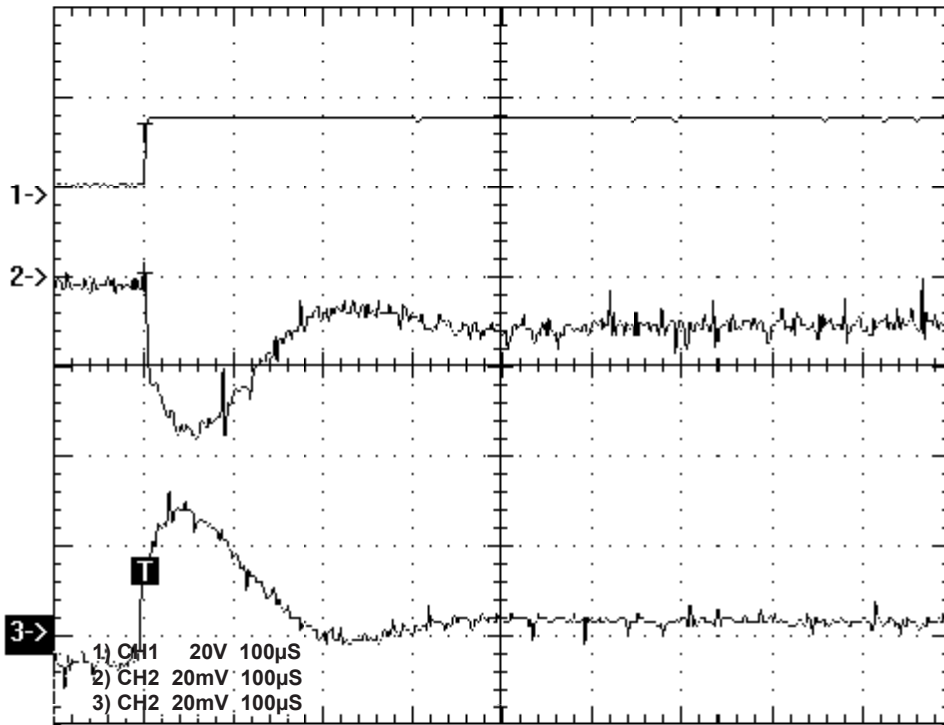
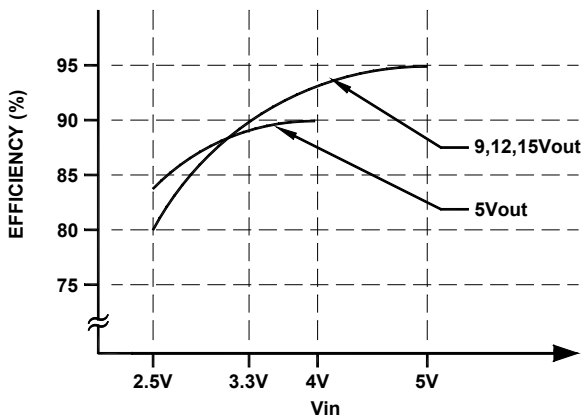
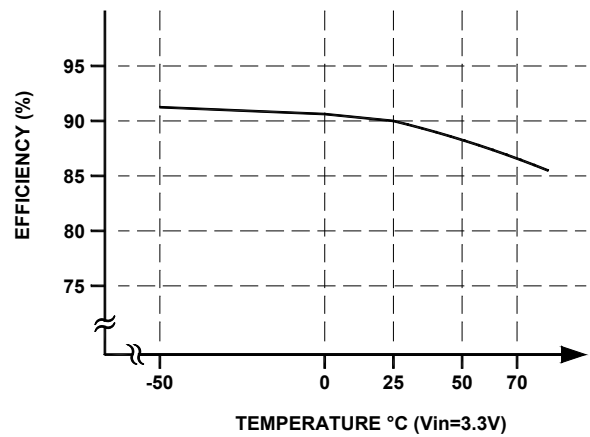


FIGURE 4. Transient response 50%FL to FL to 50%FL



HK IWTG'70'GhLekgpe{"xu0"Kprwv"Xqncv ig



HK IWTG'80'GhLekgpe{"xu0"Vg o rgtcvwtg