

# INTRODUCING HVPAK™

## PERSONALIZED POWER OF THE TOOTHBRUSHING EXPERIENCE

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**HVPAK (up to 26.4 V and 3 A per OUT)** takes its roots from the [GreenPAK family](#) featuring its configurability and free GUI-based [software](#) to design the circuit without any programming language needed. It combines mixed-signal logic and **high-voltage H-/Half-bridge** functionality in **a tiny 2 mm x 3 mm QFN package**.

The HVPAK incorporates advanced PWM macrocells, enabling the simultaneous control of multiple motors with varying PWM frequencies and duty cycles. Its compact size and low idle current consumption make it highly versatile, expanding its range of potential applications. This tiny and thermally-efficient IC provides an ideal platform for designing mixed-signal functions alongside its high-voltage capabilities.

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- **High level of customization**  
e.g., custom timers
- **Very low standby current consumption - below 1 uA**
- Power On/Off using a single button
  - LED indication
  - Constant speed
  - Over Current and Short Circuit protections

Datasheet  
SLG47105

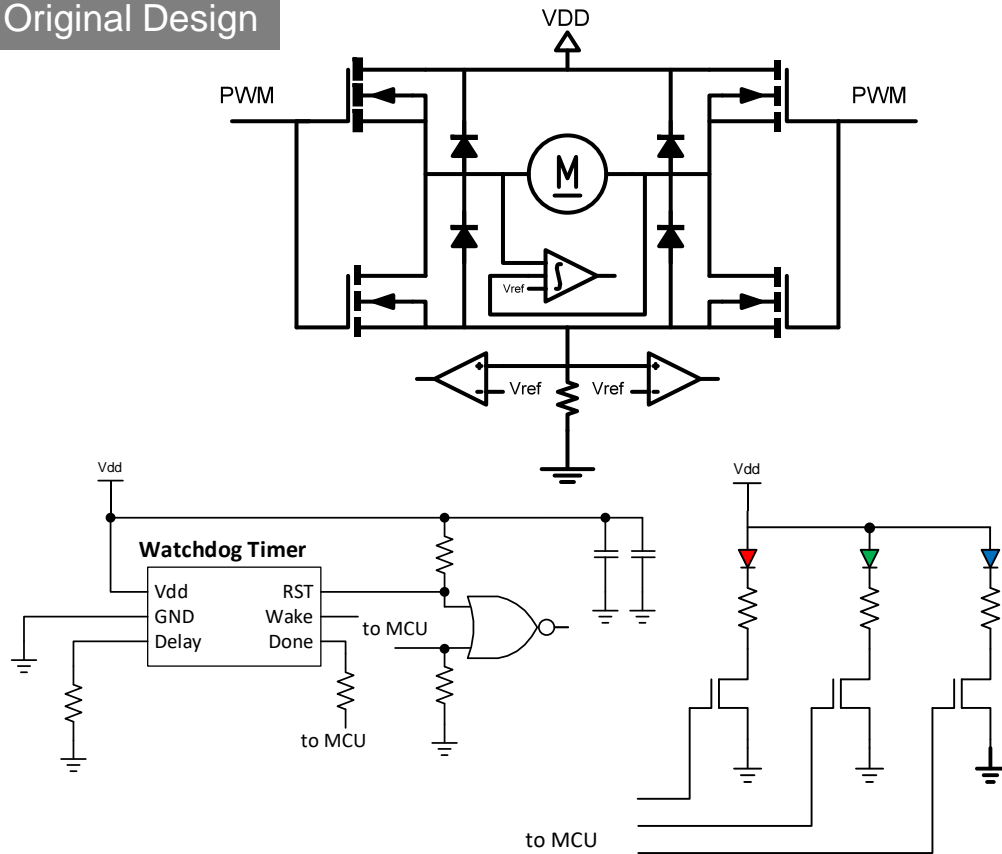
Datasheet  
SLG47115

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Example Design File

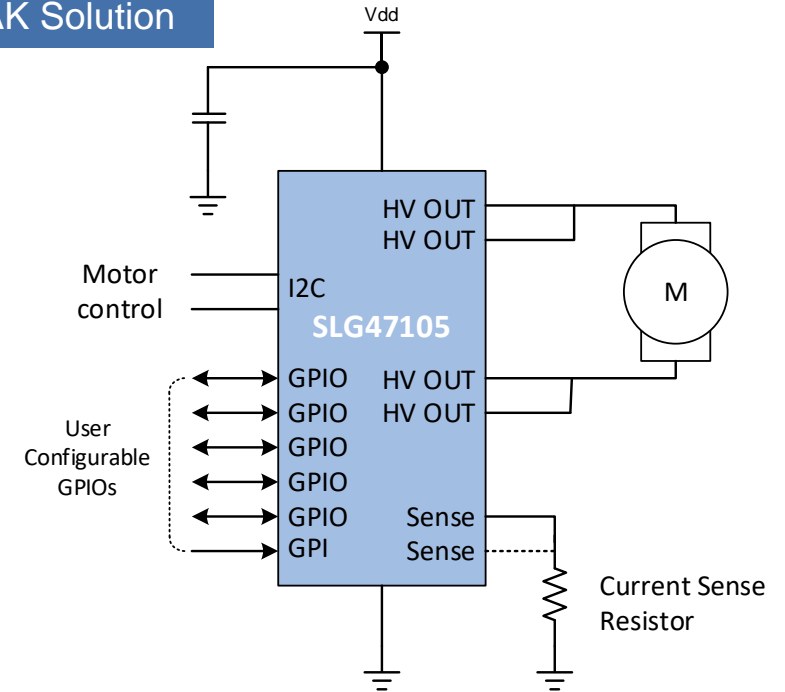
# HVPAK APPROACH: TOOTHBRUSH DESIGN

Original Design



**PLUS: temp sensor, all sorts of protection, many GPIOs, and user-configurable logic**

HVPAK Solution



**Design reduced by:**

- 5 ICs
- up to 20 passive components
- reduced current consumption by four times