

**36 Volt Simple Switcher® Module 10A Demo Board Status: ACTIVE**

**LMZ13610DEMO**



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**Description**

The LMZ13610 SIMPLE SWITCHER® power module is an easy-to-use DC-DC solution capable of driving up to a 10A load. They are available in an innovative package that enhances thermal performance and allows for hand or machine soldering.

The LMZ13610 can accept an input voltage rail between 6V and 36V. The device can deliver an adjustable and highly accurate output voltage as low as 0.8V and as high as 6V. The control structure is constant frequency PWM. The control loop operates well with low ESR output capacitors such as ceramics. The precision enable input allows for programmable UVLO of the input supply. The external soft-start capacitor facilitates a controlled and adjustable startup rise time of the output. The LMZ13610 family is a reliable and robust solution with the following features: loss-less cycle-by-cycle valley current limit to protect for over current or short-circuit fault, thermal shutdown, input under-voltage lockout, and will start up into a pre-biased output. Free-running switching frequency is 350 kHz.

**Features**

- $V_{IN}$  = 6V to 36V
- Enable UVLO = 5.7V
- $V_{OUT}$  = 5V, 3.3V, 2.5V, 1.2V
- $I_{OUT}$  = 0 to 10A
- $\theta_{JA}$  = 9.9°C / W,  $\theta_{JC}$  = 1.0°C/W
- PCB designed on four layers
  - Inner are 1 oz.
  - Outer are 2 oz.
- Measures 3.0 in. x 3.5 in. (7.5 cm x 8.9 cm)
- 62mil (.062 inch) thick of FR4 laminate material
- Max ambient temp of 65°C at full 10A load, no airflow
  - measured at 12  $V_{IN}$

**Contents:**

LMZ13610 10A SIMPLE SWITCHER Power Module with 36V Maximum Input Voltage Demonstration Board



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Part Number	Name	Product Family
<a href="#">LMZ13610</a>	10A SIMPLE SWITCHER® Power Module with 36V Maximum Input Voltage	Integrated Power Solutions

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