

*Parameters Subject to Change Without Notice*

### DESCRIPTION

JW®1881B is a non-isolated Buck regulator with high precision output current and switch dimming function. The two or three stage dimming can be achieved by setting the external pin connection. The chip operates in BCM or DCM and is suitable for universal input with 85VAC~265VAC.

JW1881B can work in two or three stage switch dimming, which two stage dimming is 100%, 15% output current and three stage dimming is 100%, 40%, 15% output current respectively. When the switch is switched off for more than 5 second, the chip will switch on to the first switch state

JW1881B can realize the constant current characteristic with lot of advantages such as integrated 500V MOSFET, very low operation current, without auxiliary winding detection and power supply, only a few external components, which greatly decreases the cost and volume of the system.

JW1881B is integrated with high precision current sampling circuit, which realizes high precision LED constant output current and excellent line

/load regulation. JW1881B has multiple protection functions, including LED open / short circuit protection, CS sense resistance short circuit protection, under-voltage protection, over temperature protection, etc.

### FEATURES

- Two or three stage switch dimming
- 500V high voltage MOSFET integrated
- No auxiliary winding
- $\pm 3\%$  output current
- Very low operation current
- Wide input voltage application
- Output short or open protection
- Sense resistor short protection
- VCC under voltage protection
- Over temperature protection
- SOP7, DIP7 packages

### APPLICATIONS

- LED Driver, Bulb

*Company's Logo is Protected, "JW" and "JOULWATT" are Registered Trademarks of JoulWatt technology Inc.*

### TYPICAL APPLICATION

