

*Parameters Subject to Change Without Notice*

### DESCRIPTION

JW<sup>®</sup>1789 is a non-isolated, constant output current step-down LED driver with 500V MOSFET integrated. Operating in the boundary mode makes it high efficiency and low radiation. Patented algorithms ensure good current accuracy and excellent line/load regulations with lowest BOM cost.

JW1789 is supplied from the MOSFET drain directly, so the auxiliary winding is eliminated, which can light up the LED within 100mS.

With unique sampling techniques, JW1789 has multi-protection functions which can largely enhance the safety and reliability of the system, including VDD UVLO, LED short protection and over-temperature protection.

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### FEATURES

- Integrate 500V, Low  $R_{dson}$  MOSFET
- Excellent line/load regulation
- Boundary mode operation
- High efficiency
- LED SCP
- VDD UVLO
- Over-temperature protection
- TO-92, SOT23-3, CPC4 package

### APPLICATIONS

- LED Lighting

### TYPICAL APPLICATION

