



LinearDimensions
SEMICONDUCTOR

SWITCHslayer™

LND080A/B 85-347VAC True One-Wire Offline Emergency Light Driver

GENERAL DESCRIPTION

The LND080A/B are single wire HV conductor, low cost, solutions for AC offline emergency lighting. The LND080 is capable of operating from 120V, 277V, or 347V without requiring the user to utilize different input wires. This reduces returns typical in the emergency lighting market.

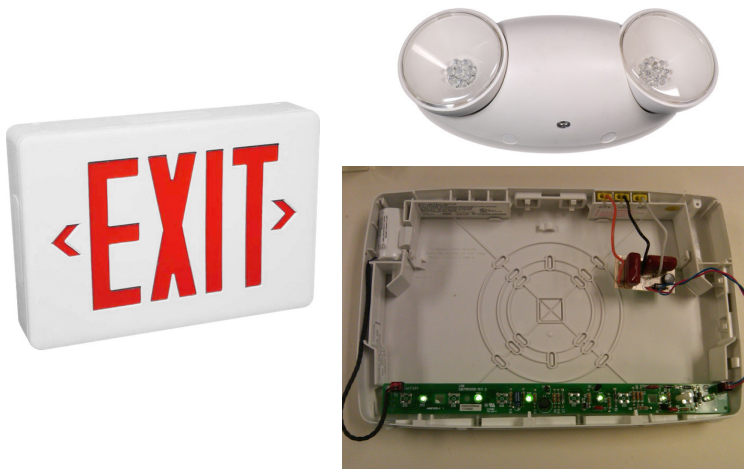
The LND080 includes the offline full bridge diodes, battery charger logic, and two resistor programmed current sources which can provide up to 100mA of output each.

The LND080A is targeted at exit signs and the LND080B for emergency lights. A switch driver and debounce circuitry allow regulatory tests.

The LND080 are packaged in 10 pin EPAD SOIC packages.

APPLICATIONS

- Exit Signs
- Emergency Lights
- Battery Backed-up Lanterns
- AC Charging LED Flashlights
- AC Charging Helmet Lamps



FEATURES

- Offline emergency light interface
- Lowest cost solution
- Includes full bridge diodes
- Universal 85VAC-347VAC Input
- **Single wire HV conductor eliminates need for separate HV input wires**
- On board battery charger
- Two on board resistor programmed current sources up to 100mA
- Switch driver current source with on board debounce
- LND080A for use with normally on LED strings (exit signs). Button removes AC to test battery connection.
- LND080B for use with normally off LED strings (emergency lights). Button removes AC and engages LEDs.
- LND080B autodetects loss of AC input and engages LED strings
- Replaces standard transformer or AC divider solutions
- 10 pin EPAD-SOIC Package

TYPICAL APPLICATION CIRCUIT

