

Enables switching between high/low current modes



# High Voltage Resistance High Accuracy LED Source Drivers

BD8372HFP-M / EFJ-M



## Features

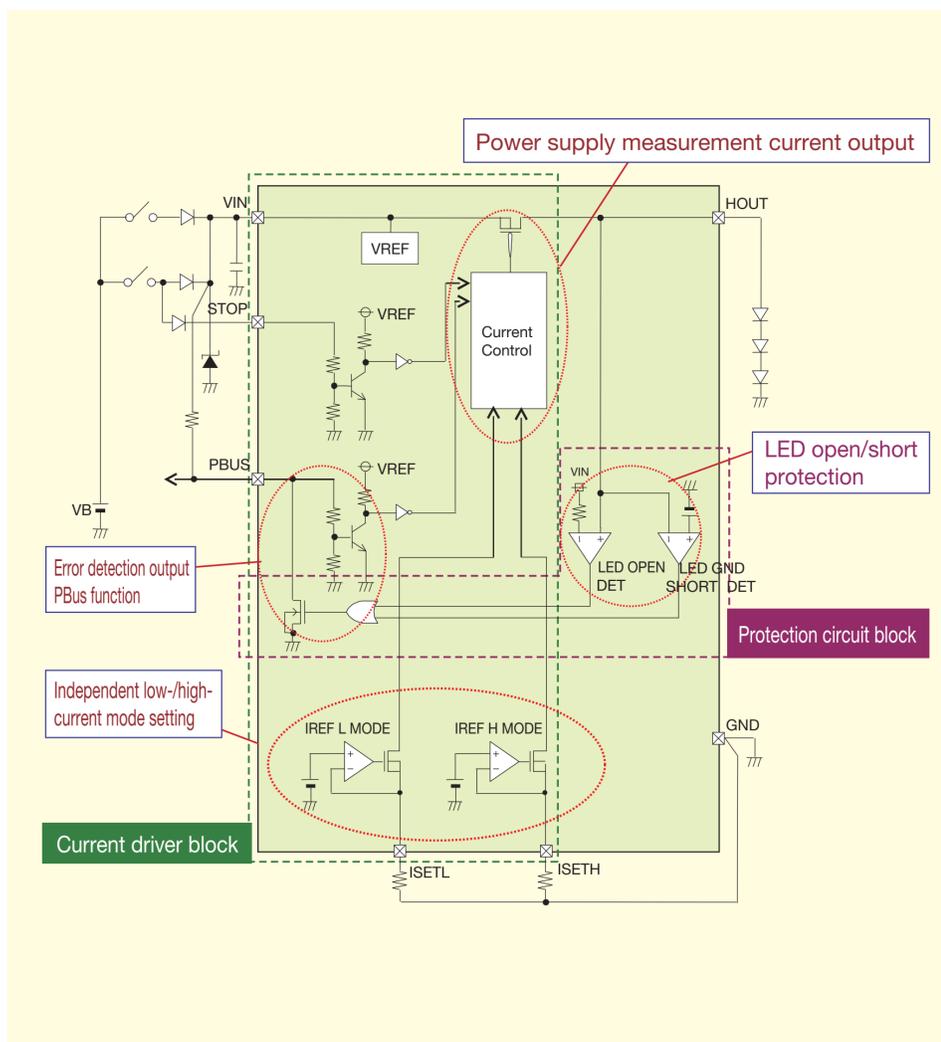
- Independently set current mode (low for tail lamps and high for brake lamps) via external resistance ( $\pm 3\%$  current accuracy)
- PBus function detects errors in the external components of all pins and outputs an external flag
- Wide input voltage range: 5.5V to 40V

## Applications

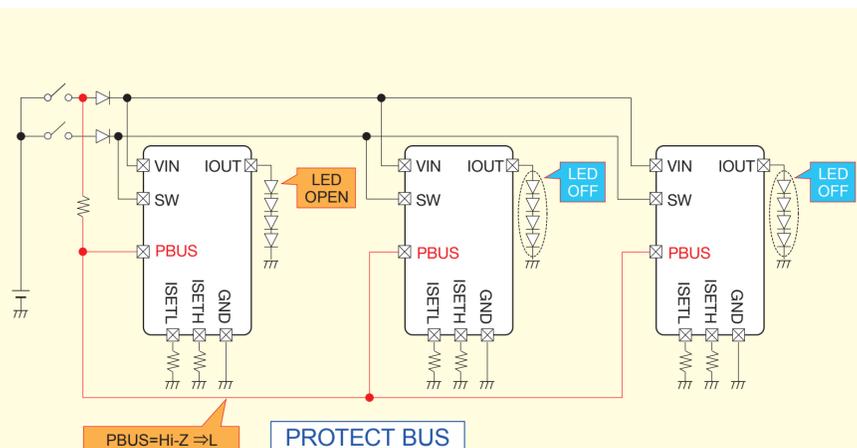
- Automotive tail lamps
- Interior cabin lights



## BD8372EFJ/HFP (Mass Produced)



## PBUS (PROTECT BUS) Function

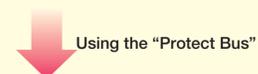


### ROHM's Proprietary PBus Function

The P-Bus pin connects to other LED drivers. If an error is detected, the "Protect Bus" will communicate with the other LED drivers to turn OFF all LEDs at the same time.

#### If only a single LED channel fails...

the brightness of the tail lamps will decrease. This makes it difficult to determine failure with the human eye, delaying detection, which may lead to more serious consequences.



#### Turns OFF all LEDs at the same time

The entire tail lamp turns completely OFF, facilitating failure detection, enabling repairs to be immediately made.