

Abstract

The MIC4807 is an 8 channel, addressable low side driver and is guaranteed to deliver 100mA minimum at up to 80V per channel. This note discusses the operation of the MIC4807 and shows how it can be used as a display driver with dimming for incandescent indicators.

Introduction

The MIC4807 contains 8 low side drivers that are controlled by addressable latches (see Figure 1). Open-drain, N-channel MOSFETs of approximately 5.1 Ω "on" resistance are used as output devices. The MOSFETs are designed for operation to 80V.

Each output is controlled by its own addressable latch; the latches are selected by a 3-bit parallel address (A_{in} , B_{in} , and C_{in}). A "1" at the data input turns the corresponding MOSFET on.

Power ICs demand protection from excessive current and dissipation, and to this end the MIC4807 includes short-circuit current limiting and thermal shutdown. In fact, the chip can withstand a dead short to 80V without damage. The output limits at typically 200mA, and the chip is guaranteed to deliver 100mA minimum over temperature. While current limiting provides short-term protection from load faults, thermal shutdown protects against sustained fault conditions by shutting off all outputs when the die temperature exceeds 150 $^{\circ}$ C. Current limiting and thermal shutdown are indispensable, yet they are sorely lacking in many other functionally similar ICs where the implementation of protection circuits is left as an exercise for the user.

Incandescent Lamp Characteristics

Owing to their superior light output, incandescent lamps are preferred over other display devices for use in bright environments. Unfortunately, incandescent lamps have a number of characteristics that make them difficult to work with in practical applications. For example, lamps do not lend themselves to multiplexing. It is technically possible to multiplex lamps by a higher-than-rated supply voltage in conjunction with PWM techniques to control filament power dissipation.

A major pitfall of multiplexing is reliability. If the multiplex circuit fails to advance for any reason (power-up phenomenon, slow or stuck oscillator, etc.) the lamps will burn out instantly. In addition, the switched current increases proportionally with the supply voltage, necessitating larger switches.

Since multiplexing is impractical, each lamp must have its own dedicated driver. This adds circuit overhead not only in the number of drivers, but also in terms of communicating with the drivers.

The brightness of an incandescent lamp is an asset in brightly illuminated environments, but what happens at night? Under contrasting conditions of low ambient light levels, the bright display can temporarily blind persons viewing it. Examples of environments with wide-ranging light levels include the cockpit of an airplane, or the operator's cab on farm or construction machinery. A dimming feature is highly desirable for any incandescent display.

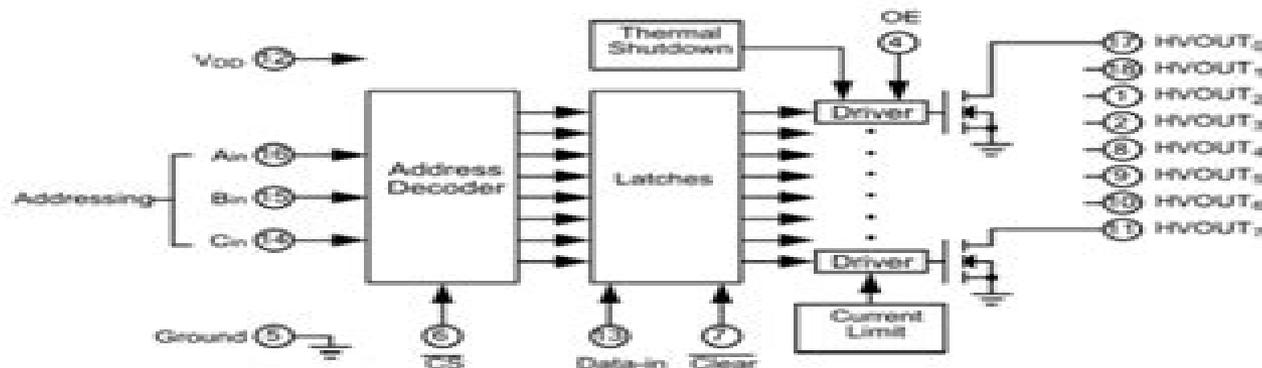


Figure 1. MIC4807 Block Diagram

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Rosina Ehmman



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