Product Overview

LC75839PW: 1/4 and 1/3-Duty General-Purpose LCD Display Driver IC

For complete documentation, see the data sheet

Product Description

The LC75839PW is 1/4 duty and 1/3 duty general-purpose microprocessor-controlled LCD driver that can be used in applications such as frequency display in products with electronic tuning. In addition to being able to drive up to 208 segments directly, the LC75839PW can also control up to 4 general-purpose output ports. Because it has the PWM output of a maximum of 3 ch, the brightness control of the LED backlight of RGB can be done. Incorporation of an oscillation circuit helps to reduce the number of external resistors and capacitors required.

Features

- Support for 1/4-duty 1/3-bias or 1/3-duty 1/3-bias drive techniques under serial data control.
- Serial data input supports CCB format communication with the system controller. (Support 3.3V and 5V operation)
- Serial data control of the power-saving mode based backup function and the all segments forced off function.
- Serial data control of switching between the segment output port and general-purpose output port function. (Support for up to 4 general-purpose output ports)
- Support for the PWM output function of a maximum of 3ch. (It can output from the general-purpose output port).
- Support for clock output function of 1ch.
- Serial data control of the frame frequency of the common and segment output waveforms.
- Serial data control of switching between the internal oscillator operating mode and external clock operating mode.
- High generality, since display data is displayed directly without the intervention of a decoder circuit.
- The INH pin allows the display to be forced to the off state.

Part Electrical Specifications

Product	Compliance	Status	Segments	Key Detection	V_{DD} Min (V)	V_{DD} Max (V)	V_{LCD} Min (V)	V_{LCD} Max (V)	V_I for Interface (V)	Output Ports	PWM Outputs	Character Generator	Reset	Contrast Adjustment	Control Command	Package Type
LC75839PW-H	Pb-free Halide free	Active	1/3 Duty : 159 (147) 1/4 Duty : 208 (192)		4.5	6	VDD	VDD	3.3 or 5.0	4	3					

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