Raffar Technology Corp.

RT5957

Built-in Swift Register 8-channel PMOS with Anti-ghosting Control Function

2020/08

Version: 0.4

Description

RT5957 is an integrated 8-channel PMOS outputs with anti-ghosting function for high refresh rate LED display applications. By controlling the BK signal timeslot (LED discharge), the RT5957 is not only to prevent LED cascading bright line which caused by an LED open or short damage, but also to avoid the over reverse voltage to damage LEDs on display performance. The RT5957 gives a very simple control model to let controller determined the turn-on, discharge, and row blank timing. Built in the 8-bit shift register, RT5957 make the data transfer by serial connection without decode components on board, this also do the help on fine pitch LED display PCB layout.

The RT5957 support 2A current output for each channel.

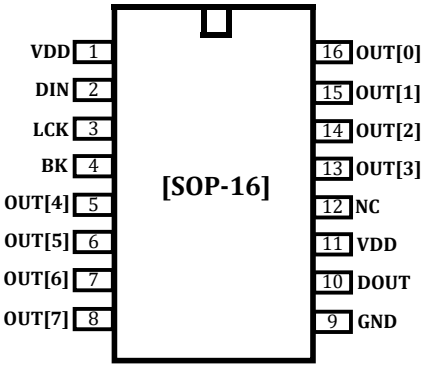
Features

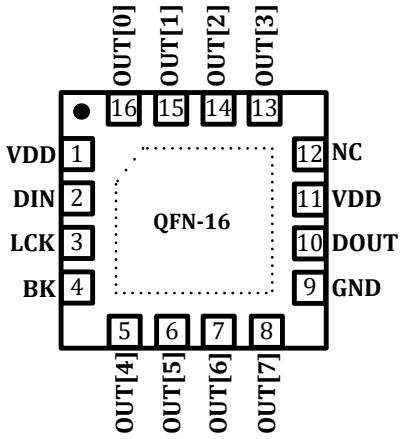
- Built-in anti-ghosting function for fine pitch LED displays
- Eliminate the LED cascading bright line caused by LED short
- Eliminate the LED cross bright line caused by LED open (along with controller)
- Serial Data connection transfer for easy and simplified PCB layout
- Wipe off 138 decoder
- Extra low supply current: 62uA(typ.)

Order Information

No.	Part No.	Package
1	RT5957SP	SOP16-150mil-1.27mm
2	RT5957QN	QFN16-4*4mm

Pin Assignment





Pin No.	Pin Name	Description
1, 11	VDD	Power supply
2	DIN	Serial data input
3	LCK	Serial data strobe input
4	BK	Discharge enable control
5, 6, 7, 8, 13, 14, 15, 16,	OUT[0:7]	Current output[0:7]
9	GND	Ground
10	DOUT	Serial data output
12	NC	No connection
Thermal pad of QFN		Floating or connect to GND

Note

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