
LCD Driver IC

PT6574

Description

PT6574 is a 1/4 -duty general purpose LCD Driver IC utilizing CMOS Technology. It can drive up to 264 segments and control up to 8 general purpose output ports. The LCD drive block voltage range is from 2.7V to 6.0V and is independent of the logic block power supply voltage. Under a serial data interface, PT6574 can support 1/4 duty, 1/2 bias or 1/4 duty, 1/3 bias drive techniques. Display data is displayed directly without the need for a decoder circuit. Pin assignments and application circuit are optimized for easy PCB Layout and cost saving advantages.

Features

- CMOS Technology
- RC Oscillator Circuit
- Up to 264 Segments
- Supports 1/4 Duty, 1/2 Bias Drive or 1/4 Duty 1/3 Bias Drive Techniques (Serial Data Control)
- RC Oscillation Circuit

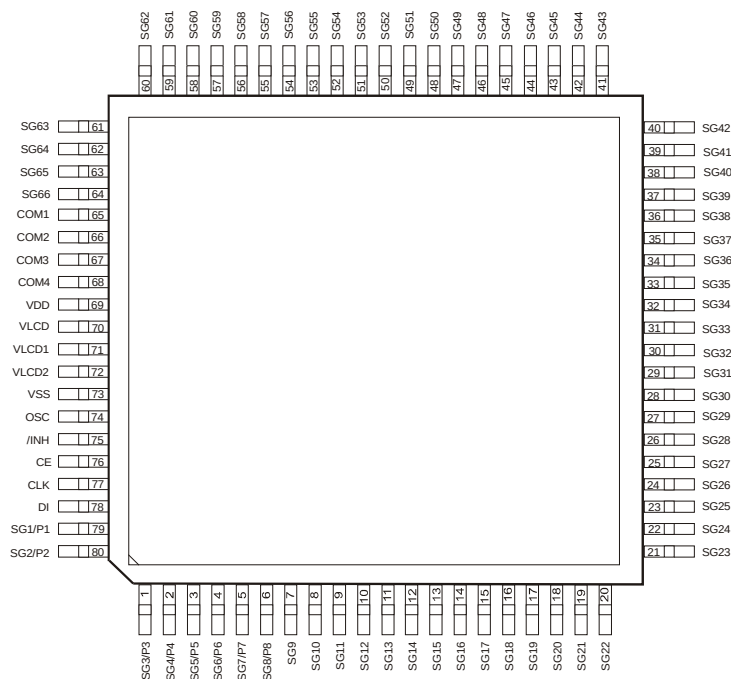
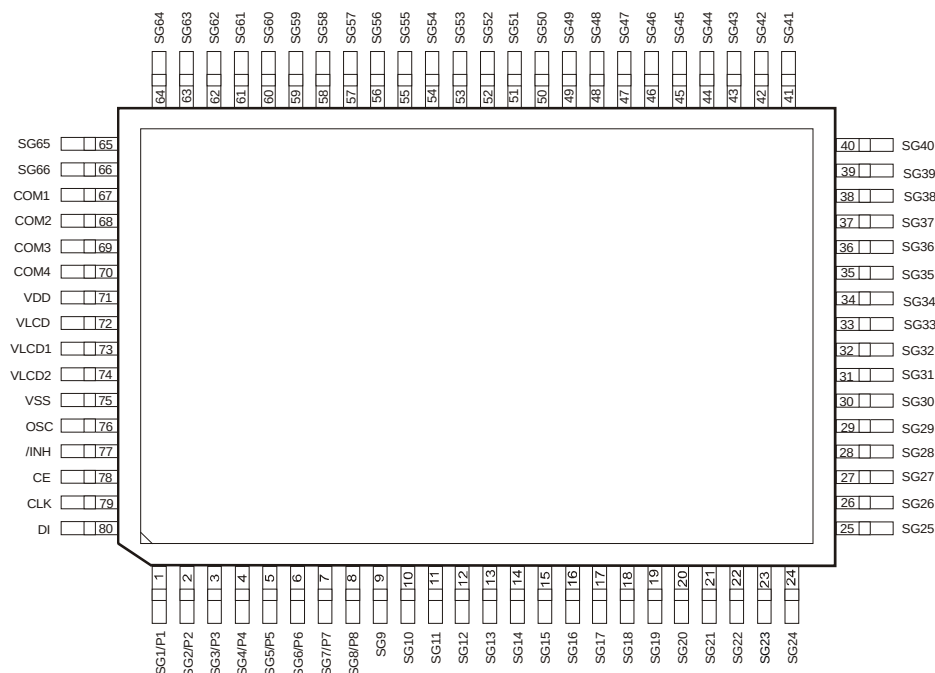
Applications

- Cellular Phone
- Data Bank / Organizer
- Electronic Dictionary / Translator
- P.O.S.
- Information Appliance
- Caller ID
- Pager
- Electronic equipment with LCD Display Panel

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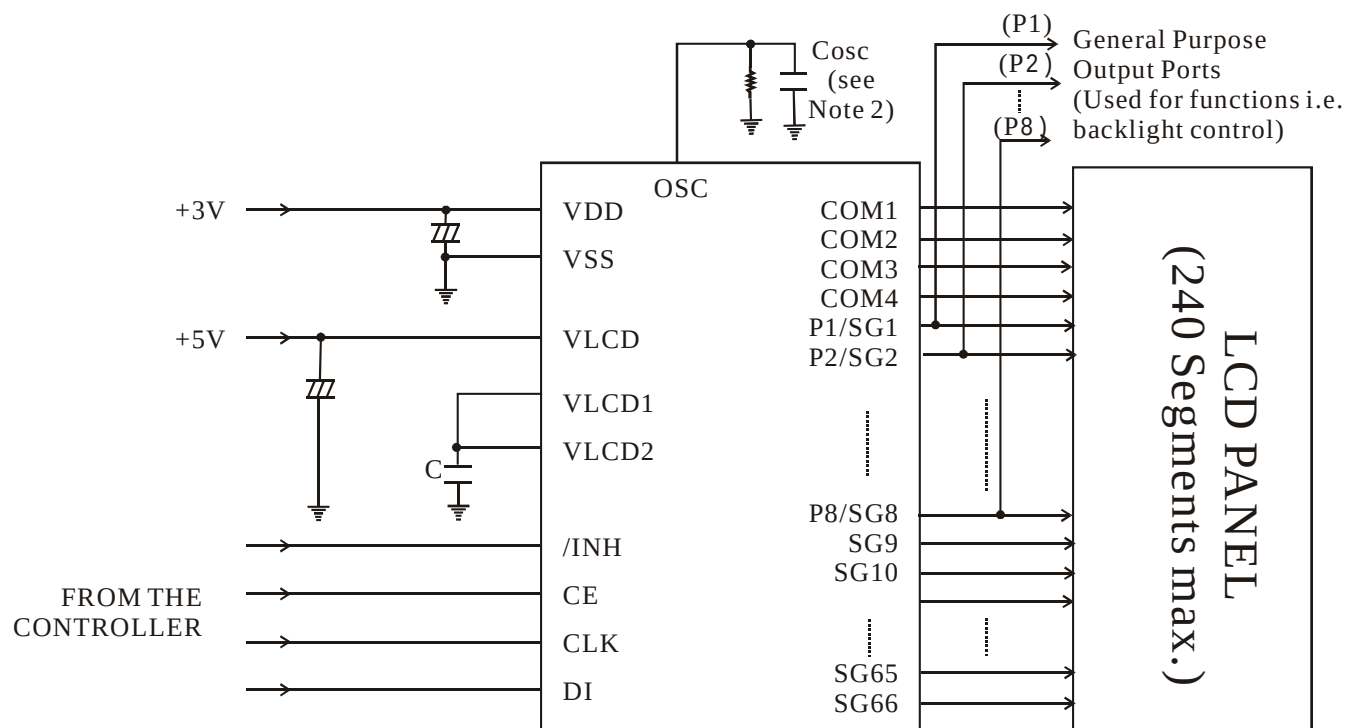
Pin Configuration



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1/2 Bias Application Circuit (for Normal LCD Panels)

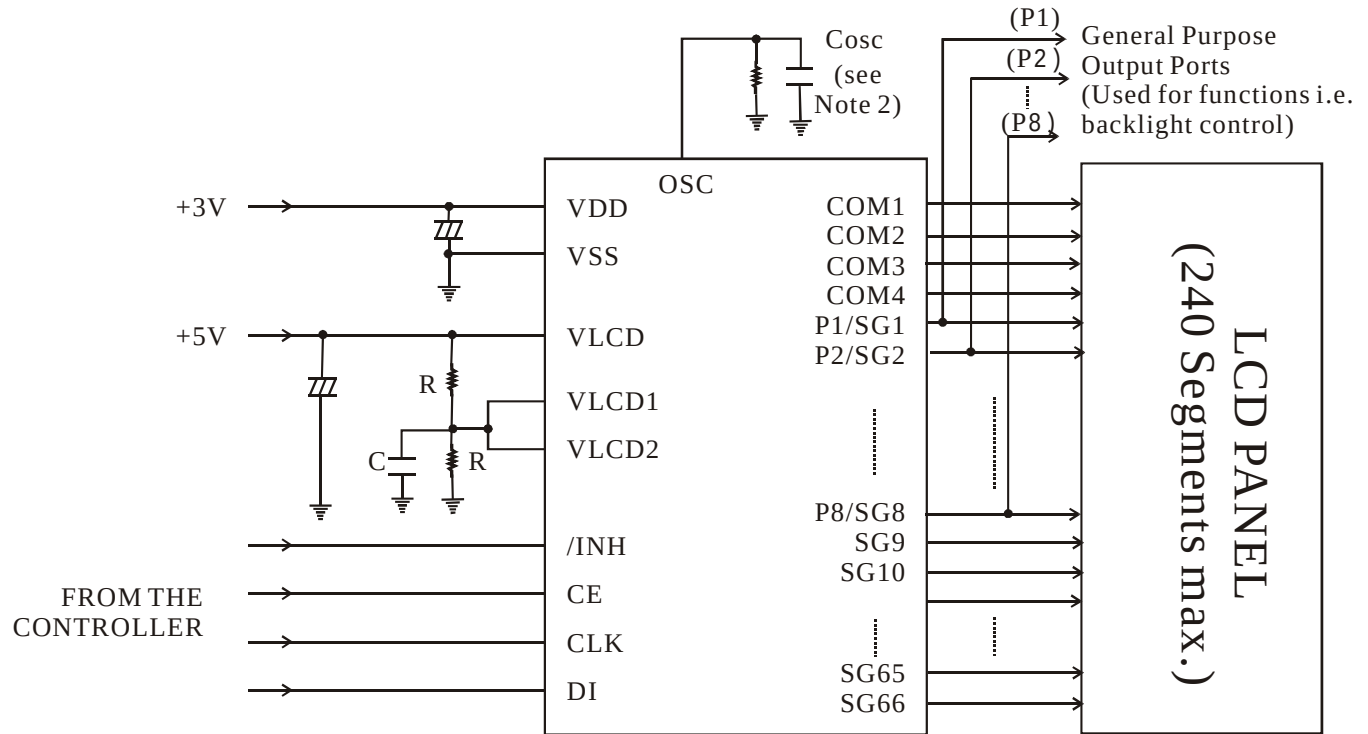


- Notes:
1. $C \geq 0.047 \mu\text{F}$
 2. Recommended Capacitor Value: Range: $220 < C_{osc} < 2200\text{pF}$. Recommended Capacitor C_{osc} Value = 680 pF.

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1/2 Bias Application Circuit (for Large LCD Panels)

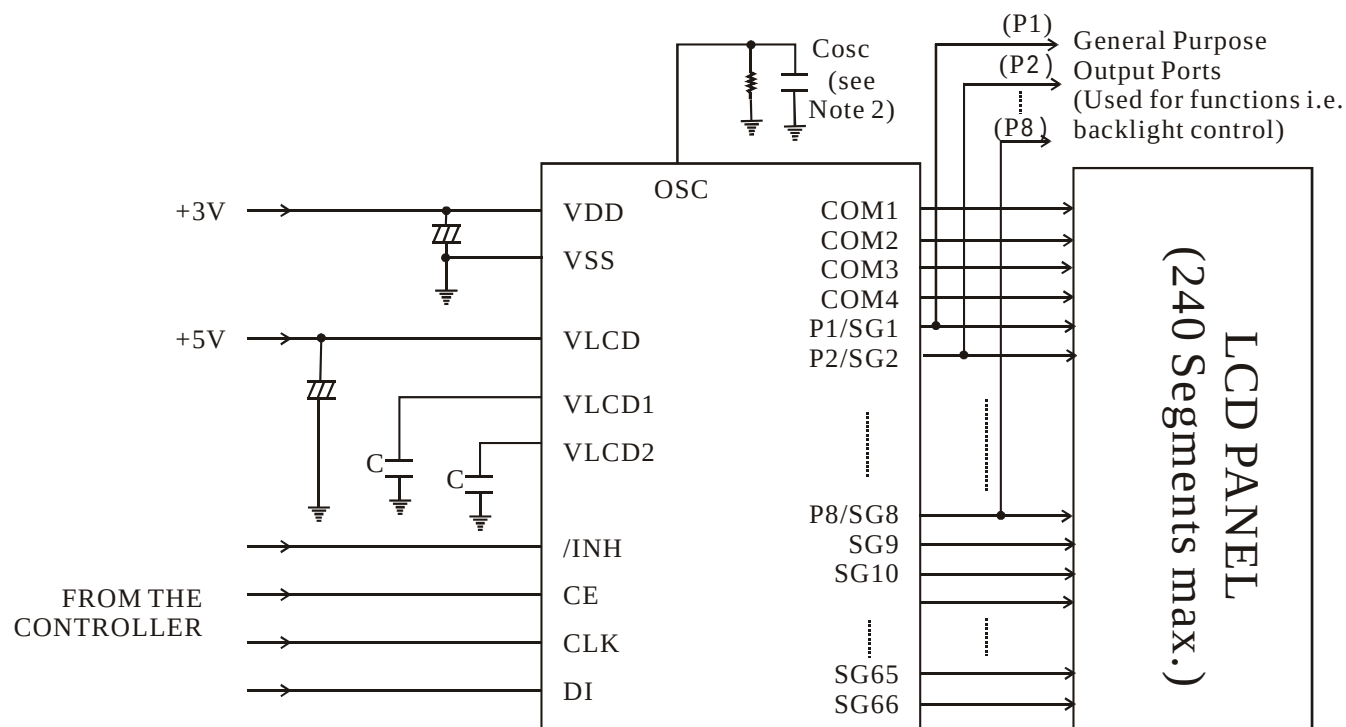


- Note:s: 1. $C \geq 0.047 \mu\text{F}$
 2. Recommended $C_{osc}=680\text{pF}$. Recommended C_{osc} Range: $220 < C_{osc} < 220\text{pF}$.
 3. $10\text{k}\Omega \geq R \geq 1\text{k}\Omega$.

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1/3 Bias Application Circuit (for Normal LCD Panels)



- Notes:
1. $C \geq 0.047 \mu F$
 2. Recommended $C_{osc}=680pF$. Recommended C_{osc} Range: $220 < C_{osc} < 220pF$.
 3. $10k\Omega \geq R \geq 1k\Omega$.

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Order Information

Order Part Number	Package Type	Top Code
PT6574	80 Pin QFP package	PT6574
PT6574LQ	80 Pin LQFP package	PT6574LQ
PT6574  or "L" in circle	80 Pin, QFP Package	PT6574
PT6574LQ  or "L" in circle	80 Pin, LQFP Package	PT6574LQ

Note: 1.  = Lead Free

2. The Lead Free mark is put in front of the date code