



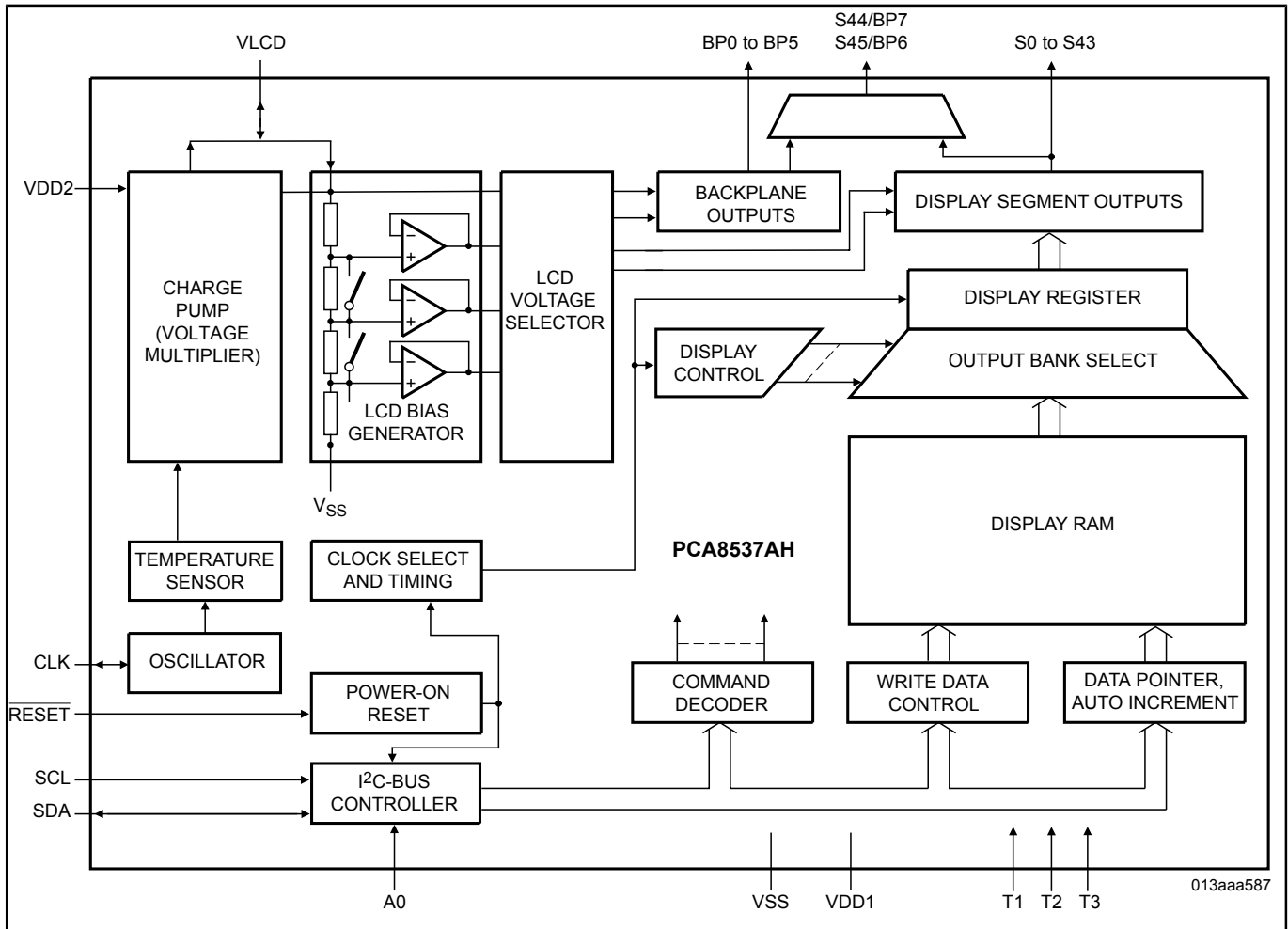
# Automotive LCD Driver for Multiplex Rates Up to 1-8

## PCA8537

Last Updated: Oct 13, 2023

The PCA8537 is a fully featured Liquid Crystal Display (LCD) driver, specifically designed for high-contrast Vertical Alignment (VA) LCD with multiplex rates up to 1:8. It generates the drive signals for any static or multiplexed LCD containing up to eight backplanes, 46 segments, and up to 352 elements. The PCA8537 features an internal charge pump with internal capacitors for on-chip generation of the LCD driving voltage. To ensure an optimal and stable contrast over the full temperature range, the PCA8537 offers a programmable temperature compensation of the LCD supply voltage. The PCA8537 can be easily connected to a microcontroller by either the two-line I<sup>2</sup>C-bus (PCA8537AH) or a three-line bidirectional SPI-bus (PCA8537BH).

# PCA8537 Block Diagram Block Diagram



View additional information for [Automotive LCD Driver for Multiplex Rates Up to 1-8](#).

**Note:** The information on this document is subject to change without notice.

[www.nxp.com](http://www.nxp.com)

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.