

Aeroflex Application Note

UT54ACS164245S I_{OUT} vs. V_{OUT}

January 22, 2008

Background

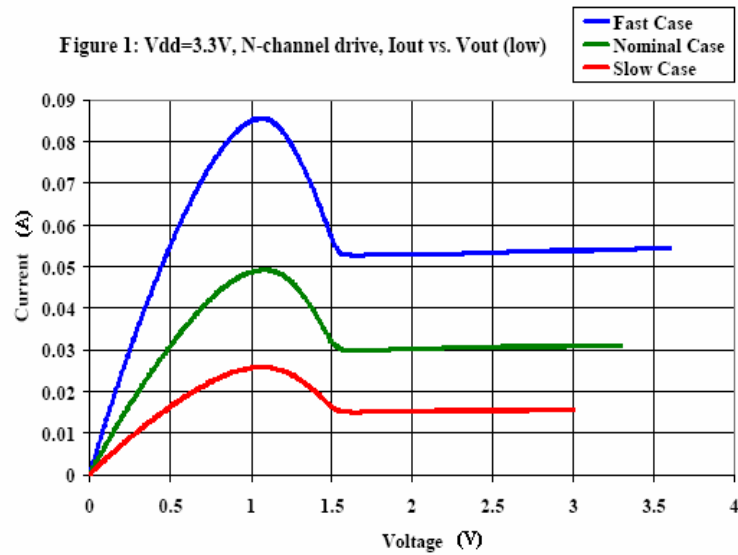
The purpose of this application note is to review the output current versus output voltage curves of Aeroflex Colorado Springs radiation-hardened, CMOS, 16-bit Bidirectional MultiPurpose Transceiver.

Test Conditions

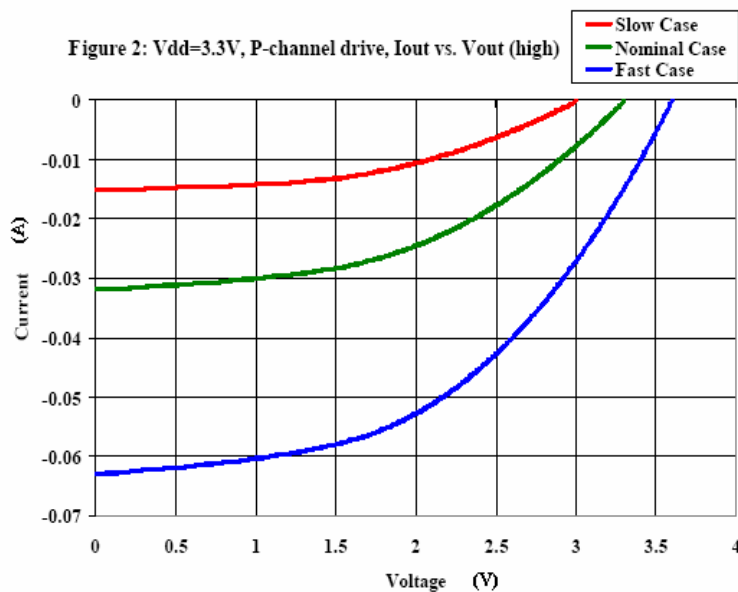
Slow Case: 125°C, worst case models, VDD=3.0V

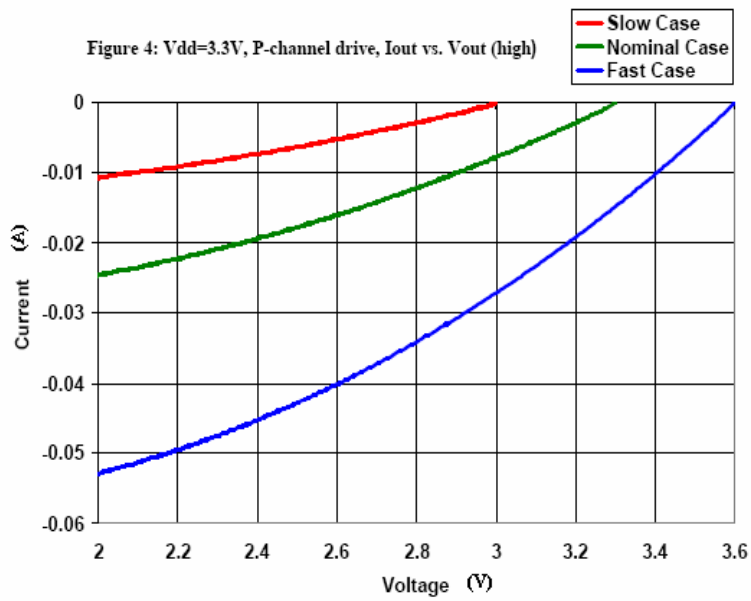
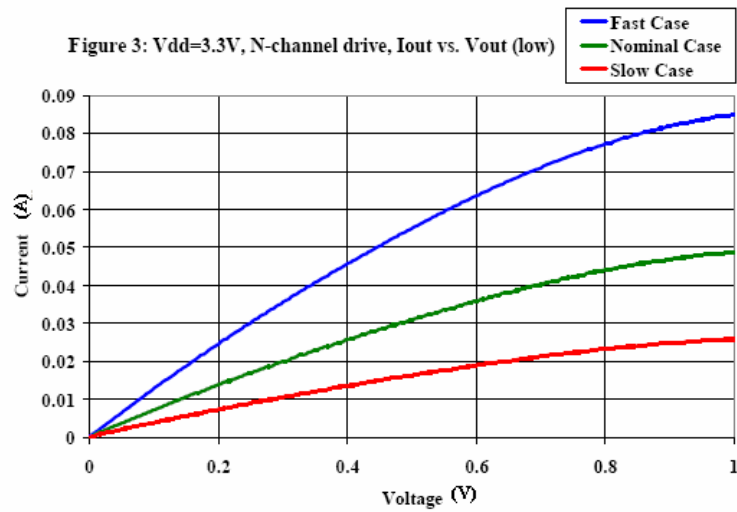
Nominal Case: 25°C, nominal models, VDD=3.3V

Fast Case: -55°C, best case models, VDD=3.6V



Note: The Hump at 1.0V is a result of the slew rate buffer.



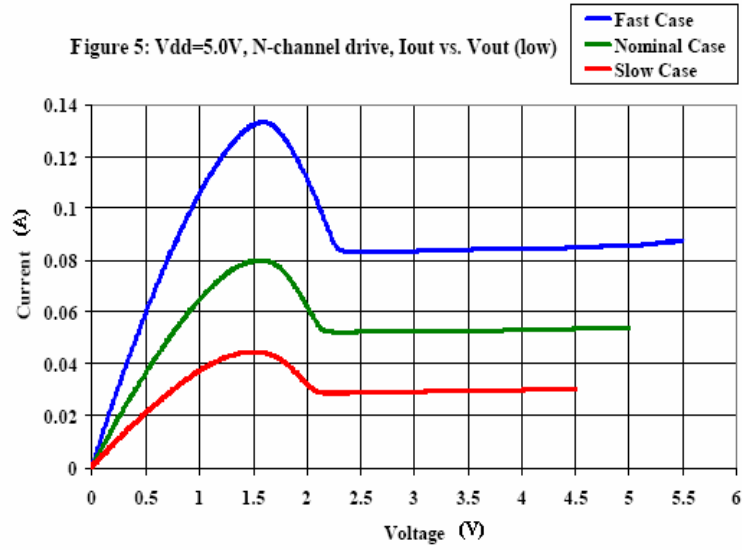


Test Conditions

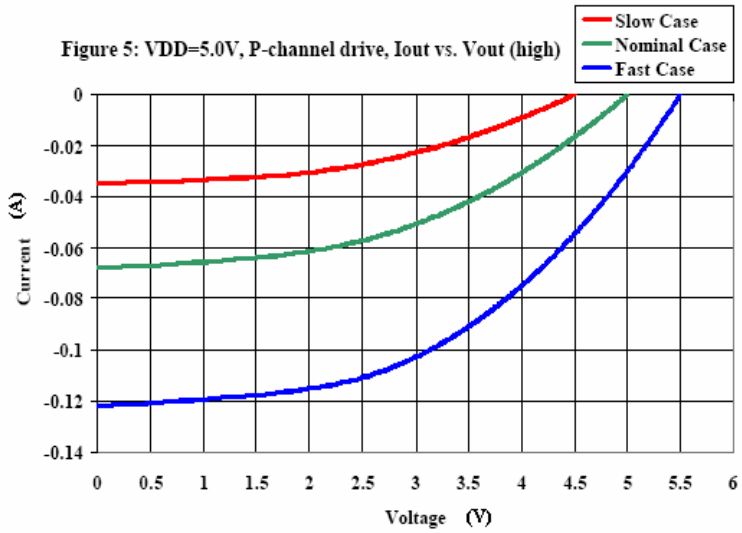
Slow Case: 125°C, worst case models, VDD=4.5V

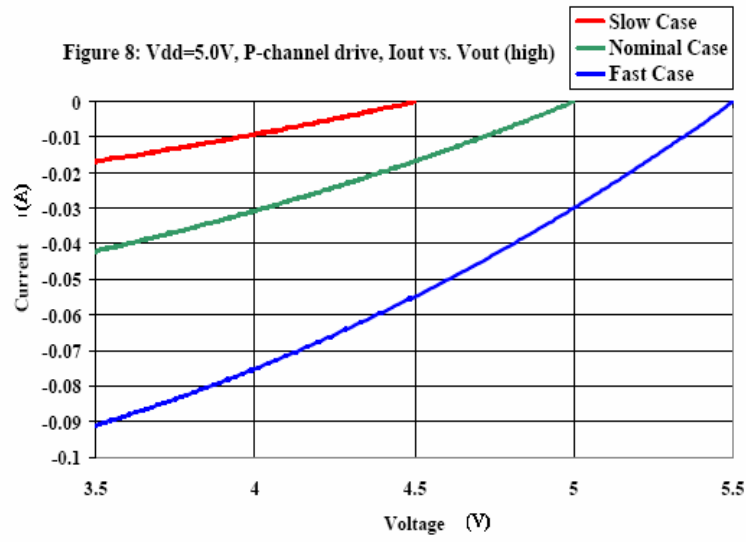
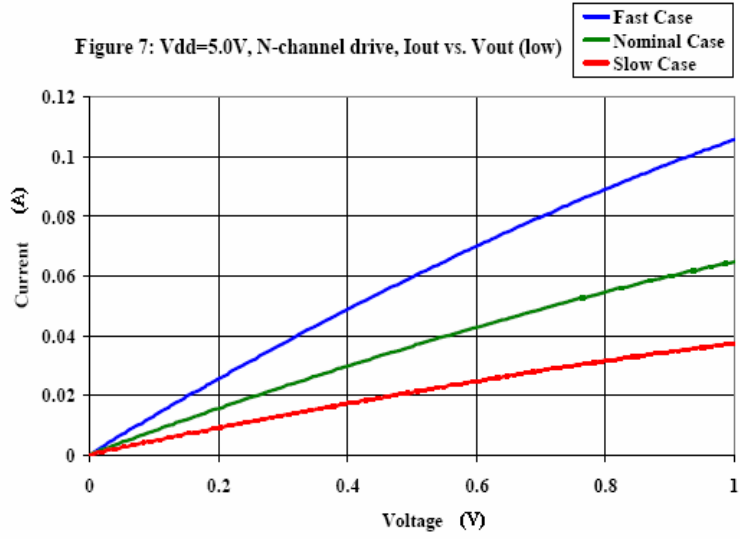
Nominal Case: 25°C, nominal models, VDD=5.0V

Fast Case: -55°C, best case models, VDD=5.5V



Note: The Hump at 1.5V is a result of the slew rate buffer.





The following circuits show the buffer set up for the current verses voltage curves.

