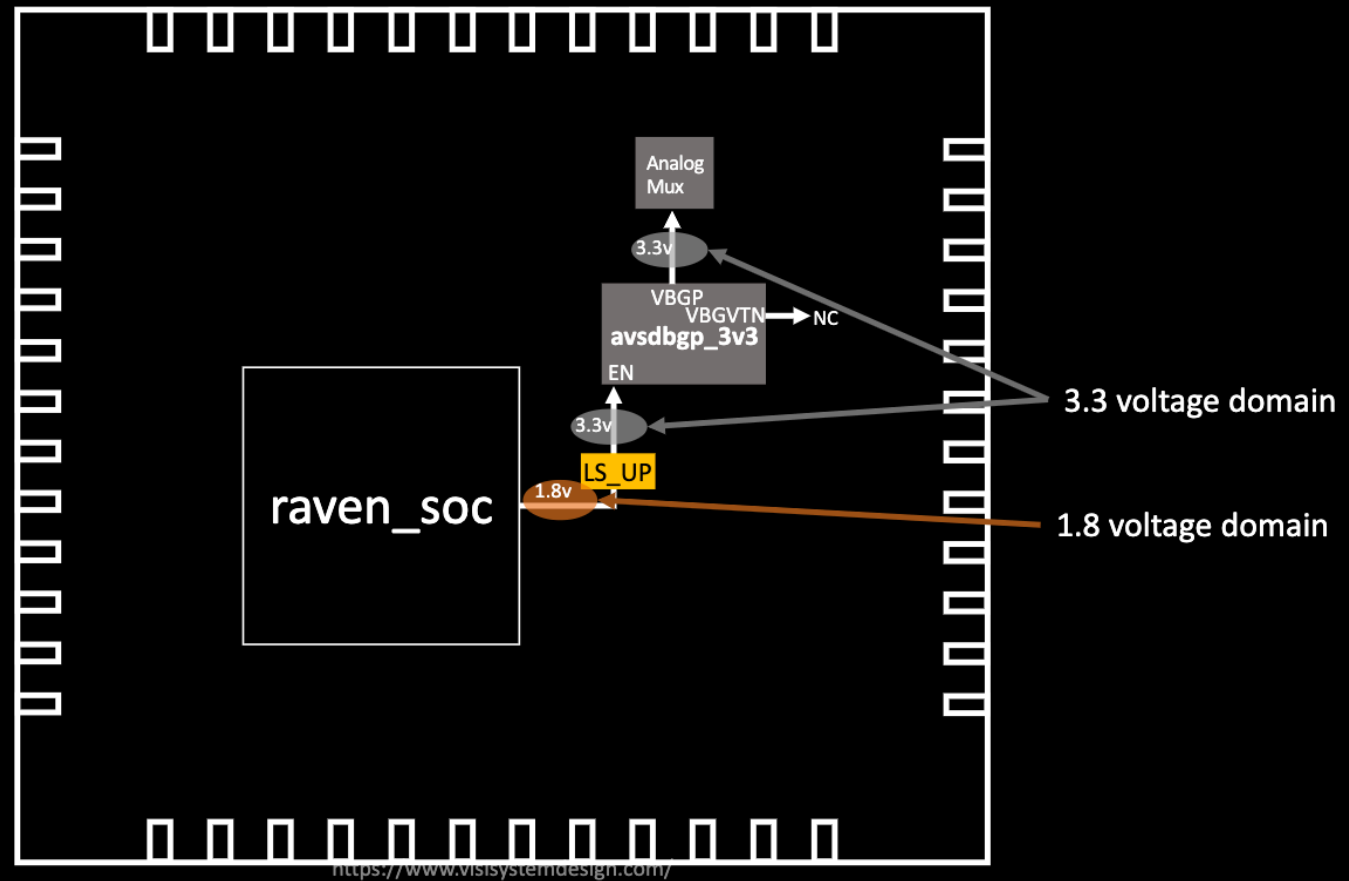


Bandgap (avbdbgp_3v3) spec sheet for 180nm tech node

- **Specs released under APACHE LICENSE 2.0**
- **Please contact Kunal at kunalpghosh@gmail.com in case of any doubts**

Application Note for band-gap (avsdbgp_3v3)



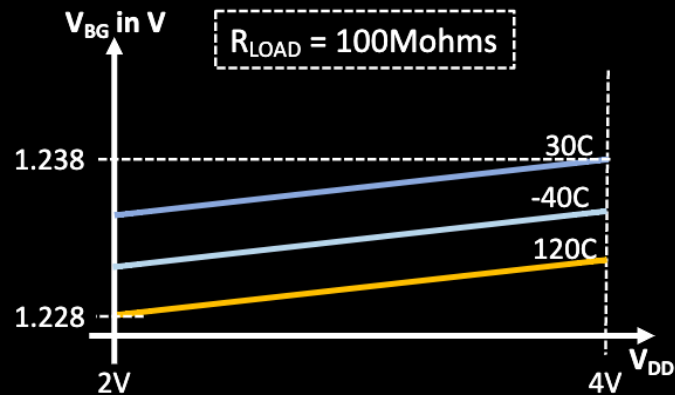
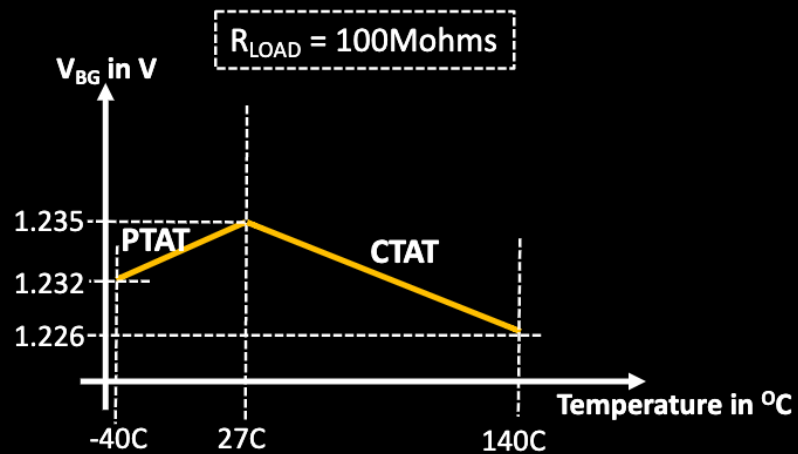
avbdbgp_3v3 preferred dimensions, pin locations and metal layers



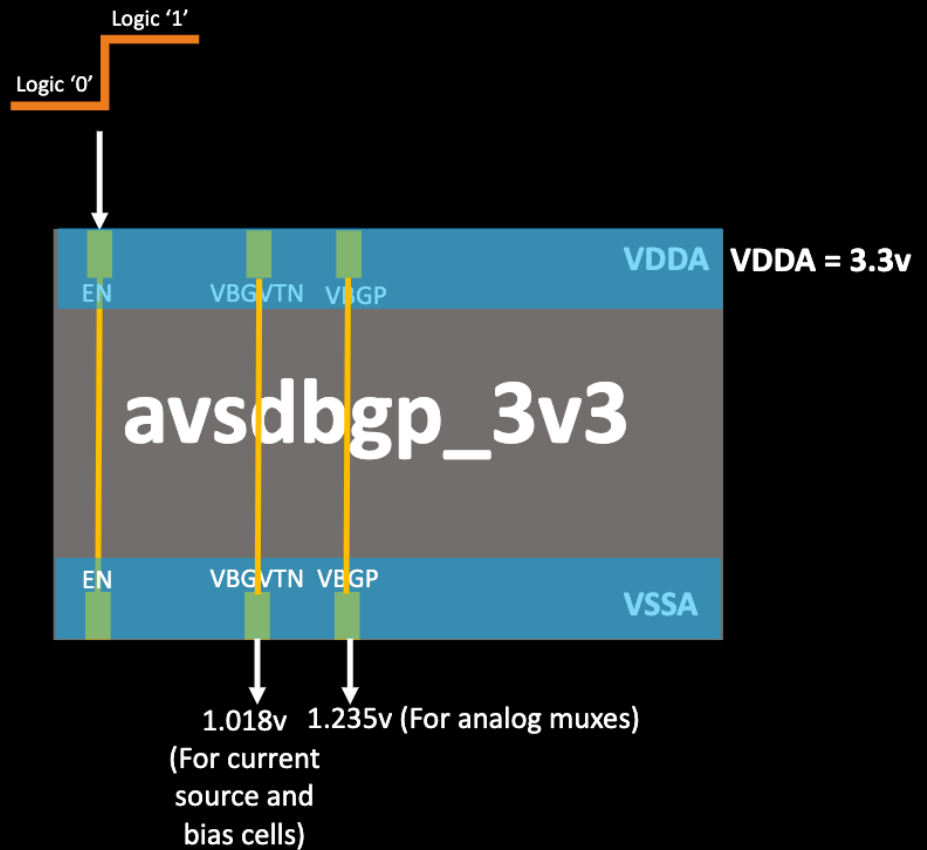
■ Signal pins – metal2 (0.38 μm x 0.8 μm)

■ VDDA pins on metal3 (291.04 μm x 3 μm)
VSSA pins on metal1 (291.04 μm x 5 μm)

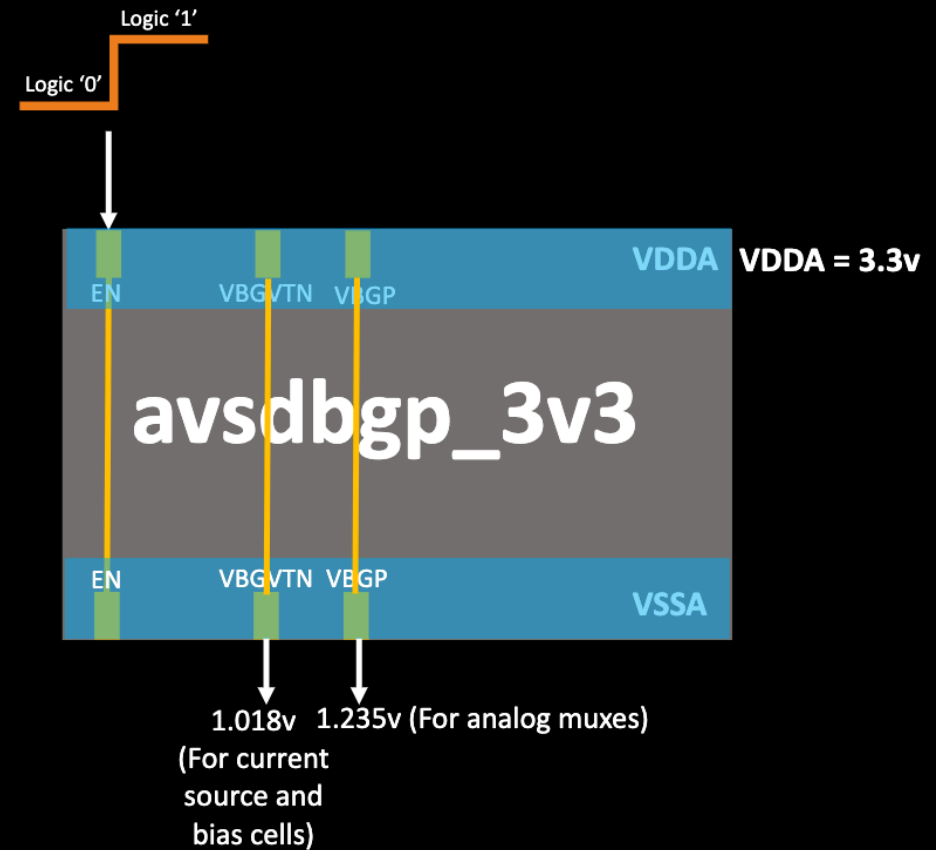
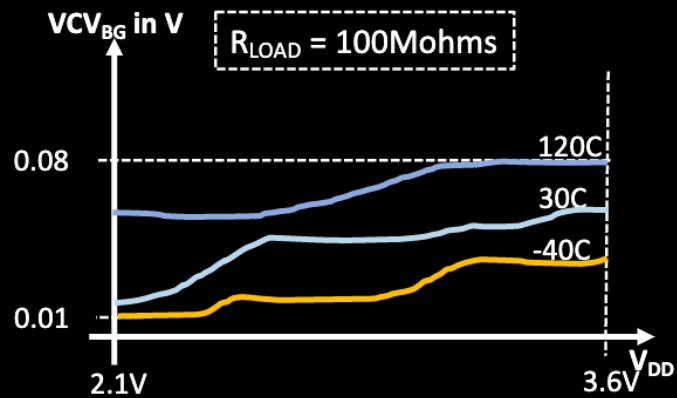
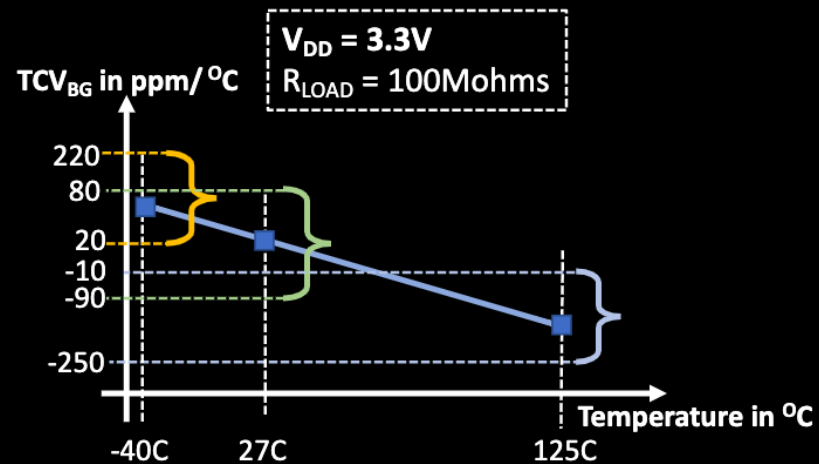
avsdbgp_3v3 operating modes



<https://www.vlsisystemdesign.com/>

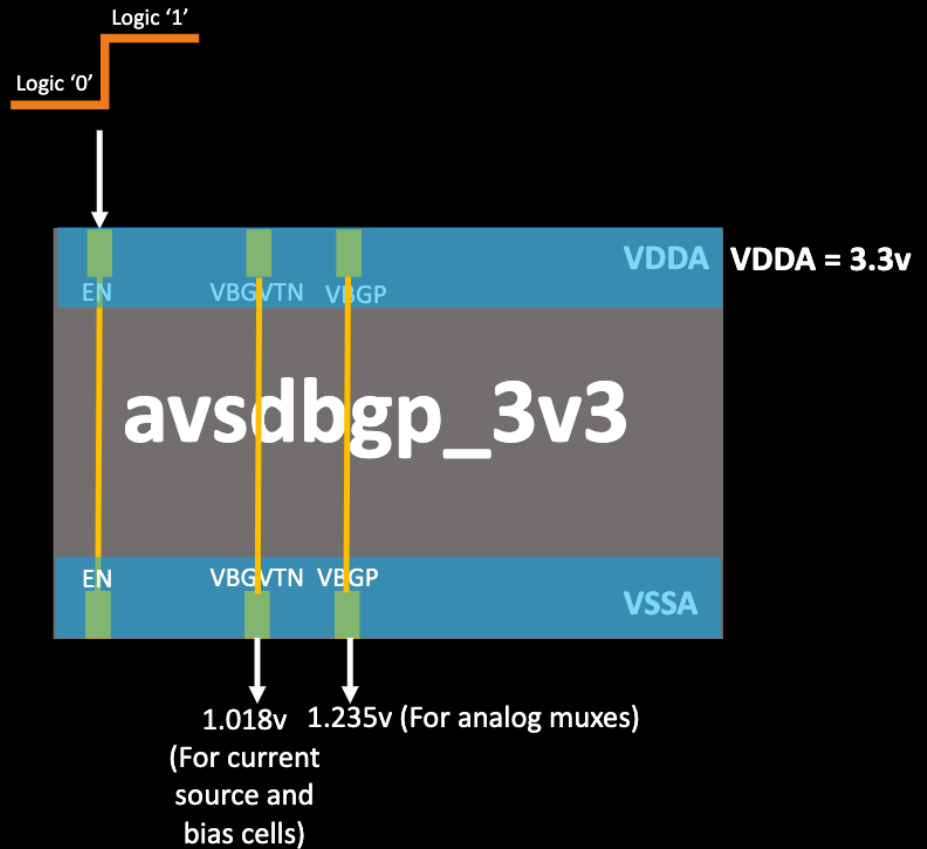
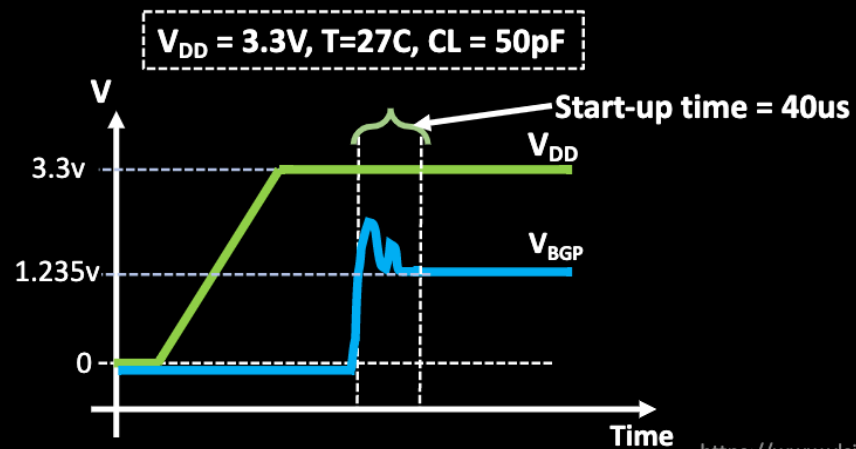
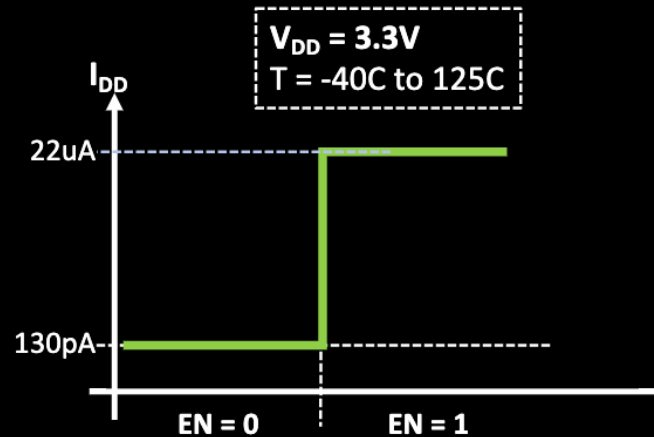


avsdbgp_3v3 operating modes



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avsdbgp_3v3 operating modes



avsdbgp_3v3 plots and values needed

- 1) V_{BGP} vs Temperature (-40C to 140C) at $R_{LOAD} = 100\text{Mohms}$
- 2) V_{BGP} vs V_{DD} (2V to 4V) at $R_{LOAD} = 100\text{Mohms}$
- 3) Temperature Co-efficient of V_{BGP} vs Temperature (-40C to 140C) at $R_{LOAD} = 100\text{Mohms}$
- 4) Voltage Co-efficient of V_{BGP} vs V_{DD} (2V to 4V) at $R_{LOAD} = 100\text{Mohms}$
- 5) Report noise at VBGP terminal (expected 25uV rms)