**PI5A3157 IBIS Model Check**

**Two IBIS Models: PI5A3157\_C\_RevA.ibs and PI5A3157\_ZA\_RevA.ibs.**

**1. Model Type**

**[Pin]** signal\_name model\_name

1 B1 TERM1

2 GND POWER

3 B0 TERM1

4 A TERM2

5 VCC POWER

6 S INPUT

**[Series Pin Mapping]**

4 1 SWITCH1 1

4 3 SWITCH1 1

**Conclusion**

1. The PIN and PIN mapping information described in IBIS model is **exactly correct** according to the datasheet.

**2. Switch ON Resistance based on IBIS Model:**

Simulation by HSPICE tool with following two conditions: **Vcc=3.3v**(Defined in IBIS model)

1) Io=24mA, Vin=0V: We get **Vout=0.14885V**, so **Ron=6.2021Ω**



2) Io=-24mA, Vin=3V: We get **Vout=2.6847V**, so **Ron=13.1375Ω**



**Conclusion:**

The values of Switch ON Resistance based on Hspice simulation with IBIS model are **correct** according to the datasheet.



**3. Analog Switch simulation result with following circuit diagram:**

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Input signal frequency is 250MHz, with **10pF** pull-down capacitance and **100Ω** pull-down resistor to the Output.

