

## **DARE350**

ON SEMICONDUCTOR INTELLIGENT INTERFACE TECHNOLOGY

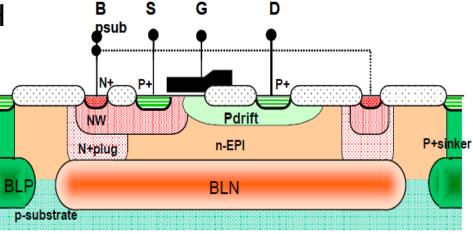
**STATUS** 



## **I3T80 TECHNOLOGY**

- 0.35µm digital process with analog/mixed-signal capability and high voltage devices (BCD)
- 3.3V logic in combination with 80V
- up to 5 metal layers
- N-epitaxy on P-substrate
- MiM, MoM, Hi-ohmic polysilicon

OTP, FLASH



## **WHY I3T80?**

- ► i3t80@amicsa
  - (2010) High power distribution, control and monitoring ASIC for space (ARQUIMEA/UC3M/EADS-CASA)
  - (2012) Model accuracy for a smart power ASIC chip set for space (ARQUIMEA/UC3M/EADS-CASA)
  - (2014) A radiation tolerant point-of-load buck DC-DC converter ASIC (CERN)

... and other 0.35µm technologies with HV/NVRAM options

- ▶ i3t80@imec
  - MPW runs through Europractice
  - Good contacts with fab in Oudenaarde (BE)

... and expertise to generate/maintain/support all the library data for a full digital and a mixed-signal flow for many years



## **STATUS**

- Initial work started in Q4 2014
- Focus on low voltage
- ELT pcell
- ELT integration into LVS and PEX decks
- RAD check
- High voltage devices
  - Review available irradiation data
  - Consult I3T80 technology specialists @ OnSemi
- No project defined yet for digital library development





