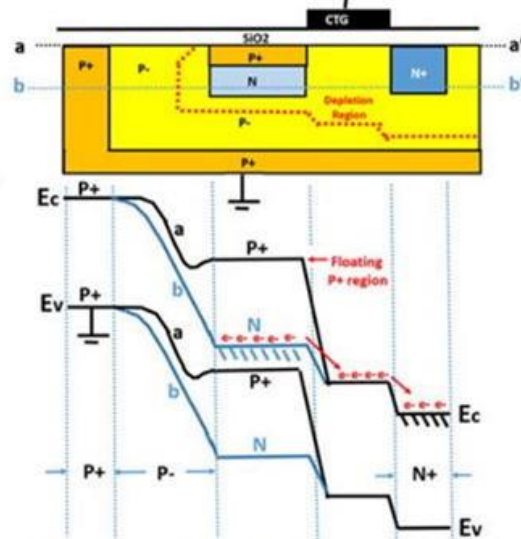
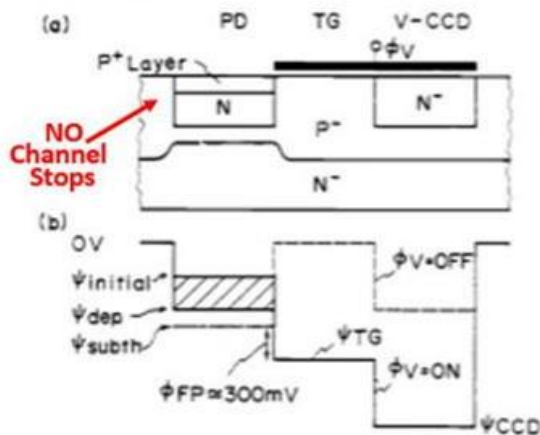


Super Light Sensitivity Feature

Buried Depletion Photodiode is NOT by necessity Pinned Photodiode.

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Buried Depletion Photodiode may have the floating surface P^+ layer, not pinned.



Slide 13

This slide shows that the buried depletion photodiode is not by necessity a pinned photodiode.

As you can see the surface P^+ layer may not be pinned unless the surface P^+ layer is directly connected to the adjacent P^+ channel stops.

Otherwise, the surface potential can be floating, causing the serious image lag problem.

The surface P^+ layer must be directly connected to the adjacent P^+ channel stops.