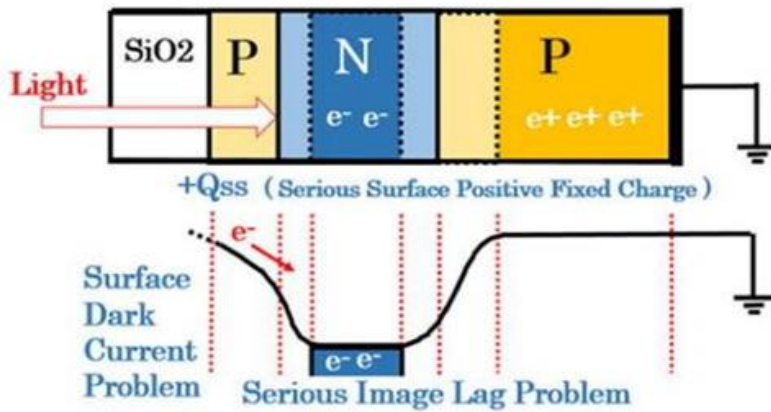


Super Light Sensitivity Feature

<http://www.aiplab.com/>
Yoshiaki Hagiwara

P+NP junction type Buried Photodiode with Image Lag Problem

See Japanese Patent 1975-134985, 1975-127647 and 1975-197646



Buried Depletion Photodiode



08

Slide 08

The type C photodiode

which is the PNP junction type Buried Photodiode

may not be completely depleted of

the photo electrons in the N region,

causing the image lag problem,

unless the surface p region is

pinned or fixed at a constant potential value

by the adjacent channel stops

or the adjacent metal external contact.