

IEEE ICCAS2023 Invited Paper on “Artificial Intelligent Partner System (AIPS) with Pinned Buried Photodiode used for Robot Vision and Solar Cell Panel “

[PNP Double Junction Pinned Photodiode type Solar Cell Slide Show.html](#)

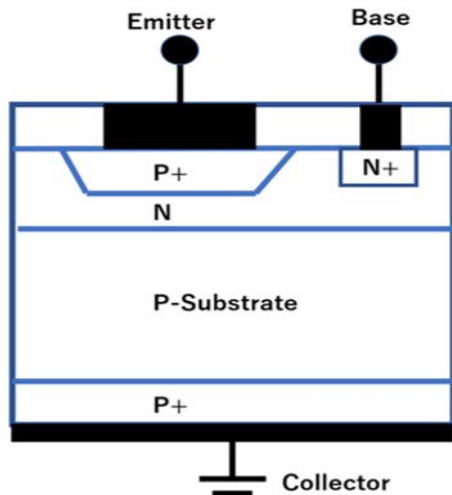
- (1) Invited Paper [CCCAS2023_CS23-217_paper.pdf](#)
- (2) Slides [Slides.pdf](#) [Slides.pptx](#)
- (3) Slide Show [Slide_Show.html](#)
- (4) Presentation Video [Video_Presentation.mp4](#)

[SSDM1977_Sony_Paper](#)

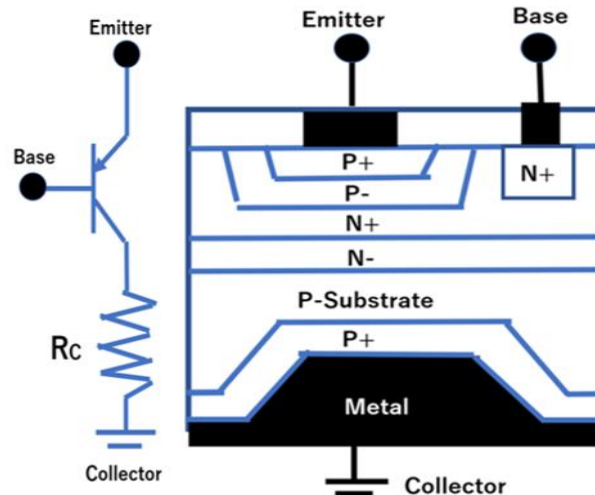
[SSDM1978_Sony_Paper](#)

[CCD1979_Sony_Paper](#)

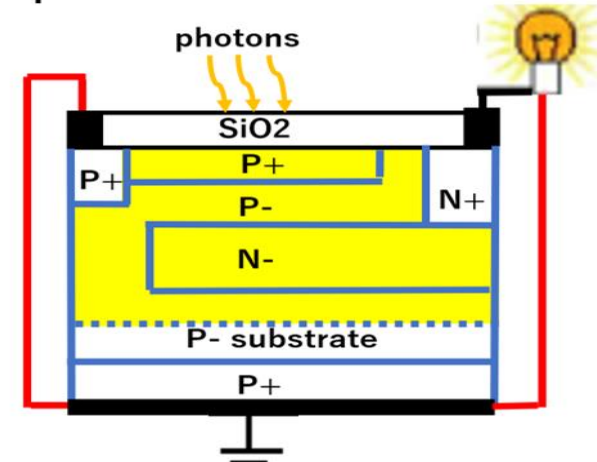
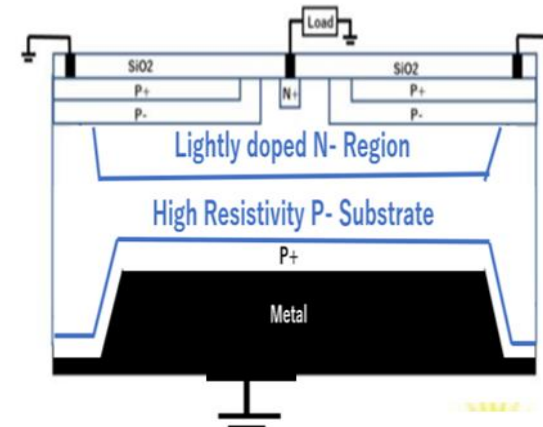
Bell Lab 1948 Bipolar Transistor



Sony Bipolar Transistor



PNP Double Junction Solar Cell,
also working as a single photo-electron detector



[Publication List by Yoshiaki Hagiwara.html](#)

<http://www.aiplab.com>

P+P-N-P-P+ double junction Pinned Photodiode type Solar Cell
[Japanese Patent Application JPA2020-131313](#)