

**Pinned Photodiode Adopted for Back-Illuminated CMOS Image Sensors
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After that, Sony succeeded in making a principle prototype of a frame transfer CCD image sensor that adopted the PNP junction type PPD technology, having a high-impurity-concentration P+ channel stop region formed near a light receiving section by ion implantation technology for the first time in the world, and its technical paper was presented at the academic conference, SSDM 1978 (Y. Hagiwara, M. Abe, and C. Okada, "A 380H x 488V CCD imager with narrow channel transfer gates", Proc. The 10th Conference on Solid State Devices, Tokyo, (1978)).