

II. SINGLE JUNCTION SOLAR CELL

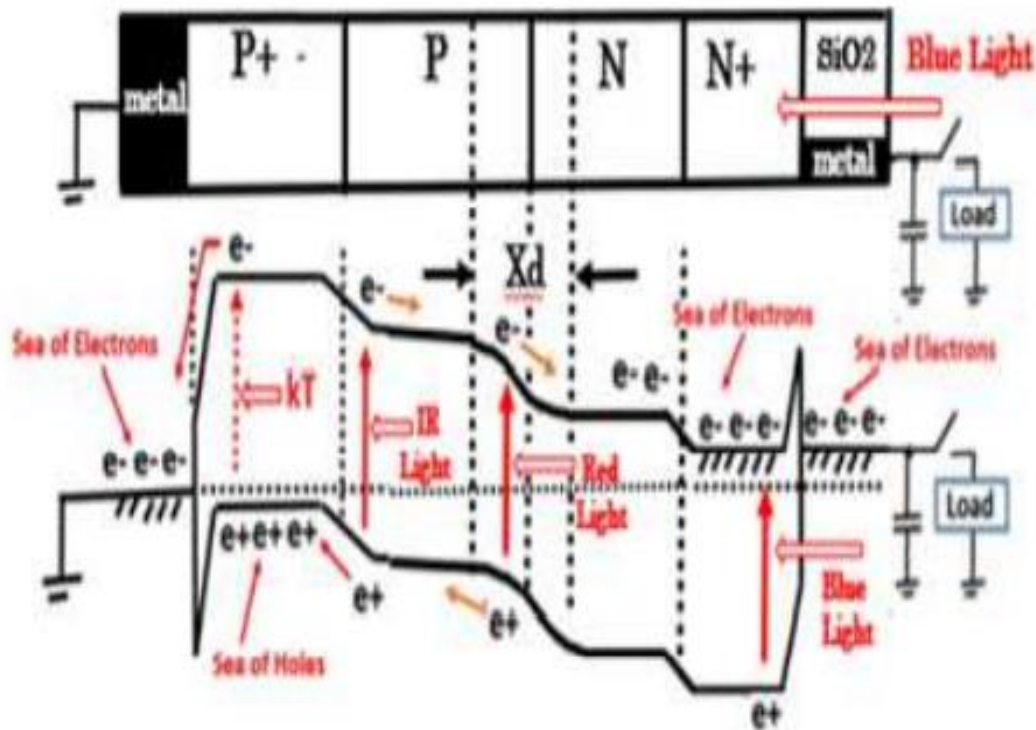


Fig. 4 Single Junction N+NP+ Photodiode type Solar Cell

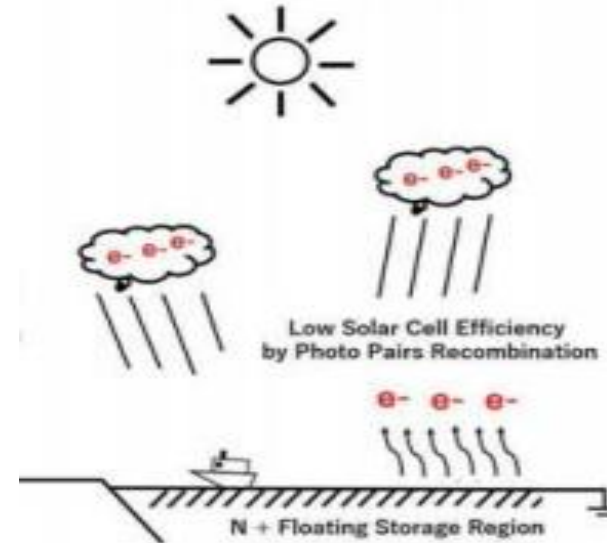


Fig.4 shows a single junction N+NP+ type photodiode for barriers for hole and electron pair separations. However, the N+ surface floating potential region is flat with no electric field where the generated hole and electrons pairs in the vicinity of the semiconductor surface stay where they are and eventually they all recombine with each other. So we expect very poor short-wave blue light sensitivity in this N+NP+ single junction type Solar Cell which is widely used in low cost Solar Cells.