

THE SPECIFIC FEATURES  
OF PHOTOCONVERSION IN Si  
SOLAR CELLS FOR THE STANDARD  
AND REAR CONTACT POSITIONS  
UNDER CONCENTRATED ILLUMINATION

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S u m m a r y

We have developed a theory of the photoconversion in Si solar cells (SCs) with rear and standard contact positions under concentrated illumination, by using quite realistic approximations for the relation between the thickness of a cell and the diffusion length. A comparative analysis of the results is made for the specified geometries. It is shown that the rear-contact Si solar cells can demonstrate a higher efficiency. An agreement between the theory developed and experimental data is obtained.