

1. What creates the potential difference (voltage) in a solar cell?

- ☐ The absorbed photons
- ☒ The pn-junction
- ☐ The outside circuit
- ☐ The bonds between the silicon atoms

✓ Correct

That is correct

2. Select the correct statement(s)

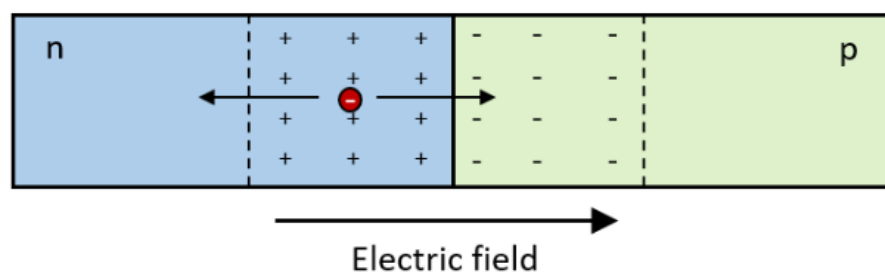
- ☐ Photons absorbed in the n-type layer outside the space charge region **do not** contribute to the photo current
- ☐ Photons absorbed in the p-type layer outside the space charge region **do not** contribute to the photo current
- ☒ Photons absorbed inside the space charge region **contribute** to the photo current

✓ Correct

That is correct

Photons absorbed in the space charge region will contribute to the photo current.

3. Which direction will the electron move given the indicated electric field?



- ☒ Left (towards the n-type)
- ☐ Right (towards the p-type)

✓ Correct

That is correct

The electron will move in the opposite direction of the field.