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Analysis of IV and CV characteristics of Au/Ni/n-AlGaN Schottky contacts at different temperatures

We report the current-voltage-temperature characteristics of Au/Ni/n-Al_{0.35}Ga_{0.65}N Schottky contacts measured over a wide temperature range. For larger forward bias, the current-voltage characteristics were well described by the thermionic emission model. By means of curve fitting, we could determine the relative contribution of the conduction mechanisms at each temperature.

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