

OPTO-ELECTRONIC INTEGRATED CIRCUIT

ABSTRACT OF THE DISCLOSURE

An optical electronic integrated circuit comprises: a silicon substrate; an electronic circuit formed in the silicon substrate and processing an electric signal; a ZnO film formed on at least portion of the silicon substrate; and an optical circuit electrically connected to the electronic circuit. The optical circuit includes at least one GaN-based semiconductor compound layer which is provided on the ZnO film, and the GaN-based compound semiconductor layer either receives or emits an optical signal.

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