

Title (en)

METHOD FOR IMPROVING THE ELECTRICAL CHARACTERISTICS OF ACTIVE BIPOLAR COMPONENTS

Title (de)

VERFAHREN ZUR VERBESSERUNG ELEKTRISCHER EIGENSCHAFTEN AKTIVER BIPOLARBAUELEMENTE

Title (fr)

PROCEDE POUR AMELIORER LES PROPRIETES ELECTRIQUES DE COMPOSANTS BIPOLAIRES ACTIFS

Publication

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Application

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Abstract (en)

[origin: WO2005020330A1] The invention relates to a method for improving the electrical characteristics of active bipolar components. In known methods for improving the electrical characteristics of active bipolar components, the controllability of an input signal via an output signal is significantly affected, or the transient behaviour, in particular in the high-frequency range, is only slightly improved for a given blocking ability. According to the inventive method, triple-layer semiconductor assemblies are replaced by five-layer semiconductor assemblies and the tendency of the latter to imitate thyristor behaviour is suppressed with the aid of a heterotransition. The inventive method improves in particular the high-frequency characteristics and the blocking ability of active bipolar components, whilst the controllability of an input signal via an output signal is maintained to a great extent.

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