

Title (en)
ENHANCED CUTOFF FREQUENCY SILICON GERMANIUM TRANSISTOR

Title (de)
SILIZIUM-GERMANIUM-TRANSISTOR MIT ERWEITERTER GRENZFREQUENZ

Title (fr)
TRANSISTOR AU GERMANIUM-SILICIUM A FREQUENCE DE COUPURE AMELIOREE

Publication
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Application
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Priority
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Abstract (en)
[origin: WO03092079A1] A bipolar transistor for a small signal amplifier that has improved Early voltages, and hence enhanced cutoff frequency. The SiGe layer (14) has a thickness (t) and a Ge content that is greater than the stability limit. The misfit dislocations do not create appreciable charge trapping sites, and do not extend into the overlying base/collector junction, such that performance is improved without yield degradation.

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H01L 31/0328

IPC 8 full level
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CPC (source: EP KR)
H01L 29/1004 (2013.01 - EP); **H01L 29/66242** (2013.01 - EP); **H01L 29/73** (2013.01 - KR); **H01L 29/737** (2013.01 - KR);
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US 0213315 W 20020426; AU 2002305254 A 20020426; CN 02828762 A 20020426; EP 02734064 A 20020426; JP 2004500339 A 20020426;
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