

Title (en)

SEMICONDUCTOR POWER COMPONENT WITH ENHANCED LATCH-UP RESISTANCE

Title (de)

HALBLEITER-LEISTUNGSBAUELEMENT MIT ERHÖHTER LATCH-UP-FESTIGKEIT

Title (fr)

COMPOSANT DE PUISSANCE A SEMI-CONDUCTEUR PRESENTANT UNE RESISTANCE ELEVEE AU VERROUILLAGE A L'ETAT PASSANT

Publication

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Application

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Abstract (en)

[origin: DE19743265A1] The invention relates to a semi-conductor power component with enhanced latch-up resistance as a result of suppression of a parasitic thyristor, comprising a first conduction type semi-conductor body (2) forming a base area, wherein a second conduction-type base area (3) is also provided. A charge carrier-recombination area (8) made of metal or polycrystalline silicon is embedded in the second base area (3), whereby a first conduction type highly doped area (9) is provided between the charge-carrier-recombination area (8) and the base area (2). Another insulation layer can be arranged below the second base area (3).

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