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(54) **SWITCHING CIRCUIT HAVING CONSTANT ON-RESISTANCE AND MATRIX SWITCH COMPRISING SAME**

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(57)

ABSTRACT

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According to various exemplary embodiments of the present disclosure, a switching circuit is applied so as not to cause a problem due to body-diode and maintains a resistance (ON-resistance) between a drain region and a source region to be constant by adjusting a voltage of the gate region in accordance with the voltage change of the source region. Further, the matrix switch is applied so that even though the temperature changes in accordance with the switching circuit block (row/column), the change in the ON-resistance is small.

(30) **Foreign Application Priority Data**

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