

## ABSTRACT

**GATE POTENTIAL CONTROL CIRCUIT**

A gate potential control circuit (10a; 10b) includes a driving switching element (12), a first gate potential supply part (60a), a first switching element (22), a first resistor (24), and a first operational amplifier (32a). The first operational amplifier includes an output portion connected to a gate (22c) of the first switching element, an inverting input into which a first reference potential is input, and a non-inverting input into which a closer one of a first value and a second value to a potential of the first gate potential supply part is input. The first value is based on a potential difference obtained by subtracting a potential of a terminal (24b) of the first resistor on a driving switching element side from a potential of a terminal (24a) of the first resistor on a first gate potential supply part side. The second value is based on a potential of a terminal (22a) of the first switching element.

FIG. 1