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**MIYACHI et al.**(10) **Pub. No.: US 2024/0235544 A1**(43) **Pub. Date: Jul. 11, 2024**(54) **SWITCH CIRCUIT****Publication Classification**(71) Applicant: **TOYOTA BOSHOKU KABUSHIKI**  
**KAISHA**, Aichi (JP)(51) **Int. Cl.**  
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**KAISHA**, Aichi (JP)(57) **ABSTRACT**

A switch circuit includes a switch element, a control circuit, a supply line, a switch line that connects the switch element in parallel to a parallel part of the supply line, an input line that allows input of a current from the switch line to the control circuit, a first FET and a second FET provided in the parallel part, and a third FET provided in the switch line in parallel to the input line. The second FET includes a body diode having a forward direction opposite to a forward direction of a body diode of the first FET. The third FET includes a body diode having a forward direction coincident with a direction in which a current is supplied to the load via the switch element.

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