Circuits that contain solid-state devices

A circuit must be closed for electric devices such as light bulbs to work. The arrows in the diagram show the direction in which electrons flow through the circuit. The current is considered to flow in the opposite direction. The circuit in ...

The IEEE Solid-State Circuits Letters (SSC-L) provides fast publication of original and significant contributions in the area of solid-state circuits. The emphasis is on the transistor-level design of integrated circuits (ICs).

?IEEE Solid-State Circuits Letters????????,???????SCI???????,???????? "??" ?????????????????????????? ...

Special "Short-circuit-proof" version Skillful matching of the power semiconductor with the performance capacity of the solid-state contactor means that "short-circuit strength" ...

SSPCs provide conduction paths via the parallel arrangement of solid-state switching devices. In addition to enduring standard turn-on/off stresses, they must withstand harsh fault conditions ...

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Electronics, branch of physics and electrical engineering that deals with the emission, behaviour, and effects of electrons and with electronic devices. Electronics encompasses an exceptionally broad range of technology. The ...

An electric circuit is a representation of a real circuit that is used to connect different devices. Electric circuits have various components. We need to learn about all these components to understand the electrical circuit and the ...

Hard Disk Drives (HDD) and Solid State Drives (SSD) are two types of storage devices used to store data on computers,laptops, and other devices. While HDDs have been around for decades, SSDs are a newer, faster, and ...

A primary solid-state sodium-ion battery is constructed using the high sodium-ion conducting polymer electrolyte which exhibits an open circuit voltage of 2.52 V. When a load of 100 k? is ...

Solid State Devices and Materials (SSDM), Sep. 2025. Takuma Matsumori, Hikaru Sebe, Daisuke Kanemoto and Tetsuya Hirose, "CMOS readout circuit with delay and offset ...

This circuit consists of two coupled VO2 Mott memristors, two resistors, and three capacitors. The proposed high-order neural circuit demonstrates 11 distinct firing behaviors ...

Power electronics use electronic devices and circuits to efficiently and precisely control the flow of electrical energy for various applications. Power electronics play an important role in transforming and regulating the voltage, ...

Basic Electronic Components are electronic devices or parts usually packaged in a discrete form with two or more connecting leads or metallic pads. These devices are intended to be connected together, usually by soldering to ...

UL 991-2010???????,1.1 ??????????????????????????????1.2 ??????????????????????????????? ...

In this study, VO2 Mott memristors have been successfully fabricated, leading to the proposal of a passive and scalable high-order neural circuit. This circuit consists of two ...

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