

What are solid-state switches?

Solid-state switches are commercially available in modular packages of different operating voltage and current ratings for selection by designers according to specific application requirements.

What is a solid-state RF switch?

A solid-state RF switch is a type of RF switch with a solid-state design for hot switching RF signals with switching speeds in the microseconds. These switches, as mentioned in the text, have no moving parts, ensuring excellent reliability and repeatability that military applications require. Please contact our engineering team with your specific RF switching requirements.

What is a solid-state pressure switch?

A solid-state pressure switch is a type that uses strain gauge technology to provide over 50 million switch cycles with long-term stability and no drift. (Loading, please wait.... sign up today!)

What is a push-pull switch?

Push-pull switches are therefore the ideal choice in square wave pulse applications with high demands on the shape of pulses. BEHLKE switching modules are always galvanically isolated. They can be used as high-side switches for positive as well as for negative voltages.

What is a FQD ghts FHP FSWP?

The model series FQD, GHTS, FHPP and FSWP is a standard product line for "plug and play" solutions. All BEHLKE pulsers are designed for system integration, that means, the pulsers need a high voltage power supply and a control signal source for operation.

What is a fixed on-time switch?

Switches with fixed on-time are very cost-efficient and are used mainly in simple charge or discharge circuits. Due to their excellent EMC characteristics they are ideal switching elements in generator circuits for damped oscillations, especially in connection with the fast free wheeling diodes of the series FDA.

In this paper, we present a new approach for distributing and modulating power based upon recent technological developments in high voltage, high power, solid state ...

The traditional circuit breaker is not propitious for high voltage applications, due to their terribly loss of magnetism on a large stroke length. In contrast, solid-state switch as a high voltage ...

This paper describes the design and performance of solid state switches developed for applications ranging from low repetition rates with moderate average power

A High Power Solid State T-R Switch. Download Whitepaper Author: Gerald Hiller and Rick Cory; Radio

transceiver designers are always faced with a dilemma: how to direct the high power ...

Solid state pulse generators use solid state switch technology to generate high voltage pulses, often at high rep-rates and with long lifetimes. ... Advanced thermal management techniques ...

Learn the benefits and advantages of FET, PIN diode and hybrid solid state switches. This note explains how RF / Microwave switches work. Learn the benefits and advantages of FET, PIN diode and hybrid solid state switches. ...

control systems is the availability of a fast, high voltage, solid state, opening and closing switch. Figure 1 shows a DTI PowerMod(TM) high voltage, solid state switch which ...

Discharge Switch Assembly The performance of the solid-state switch was studied with a capacitor bank. Fig.2 shows the circuit diagram of the switch test circuit. Test load is 4 ...

Application Note AN-008: High Power, High Isolation, Switching Solutions with NuSwitch PIN DIODE Technology . By Elijah L. Houck. ... switches/relays can have very high ...

High Power, Symmetrical SPDT RF Switch | SSHPS 1.2-1.4-4000 Data Sheet. High power RF switches are employed in Radar systems where high power, low loss and excellent isolation are required. This symmetrical, high ...

The solid state relays (SSRs) are on/off remotely controlled switches with complete galvanic isolation from input to output. No power supply is needed on the output. Using a relay allows for low-power control (e.g. from a ...

High Power Solid-state Switch for Replacement of Thyratron for Kicker & Klystron Modulator R& D Status Suk-ho An Head of Power Supplies Group Pohang Accelerator ...

This article shows the highest power handling and fastest switching speed of any previously reported compact solid-state plasma (SSP) switch. These improvements are made ...

This high-power solid state RF power switch operates from +28 Vdc supply with 500mA maximum current draw. See SCD 70220 for all operating parameters. Unit operates from -40C to +70C up to 15,000 feet altitude. This ...

For these applications ABB is producing components which can be used in a modular design of switches for applications in different pulse modulators. This paper describes ...

This paper describes development of high-power solid-state switch (HPSS) and high precision capacitor charging power supply (CCPS) for kicker modulator system in an accelerator facility. ...

Finally, a high-voltage solid-state switch is developed based on the SiC MOSFET series connections, whose output pulse width is adjustable from 20 to 300 ms, frequency is adjustable from 1 Hz to ...

This article provides an introduction to the basic operation of solid-state relays with a focus on the output devices in today's SSRs. There are many circumstances in which we need to control a high current/voltage load based ...

It is a simple and reliable scheme to use the switching characteristic of high-voltage solid-state switch to generate controllable high-voltage pulse power. Compared with the traditional gas ...

Solid State Relays (SSRs) represent a major advancement in Switches and Relays technology, serving a crucial role in modern electronic systems that often goes unnoticed. Operating as electronic switching devices, ...

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