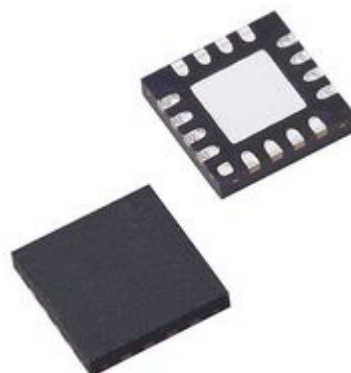




TS12A12511DRJR SPDT Analog Switch

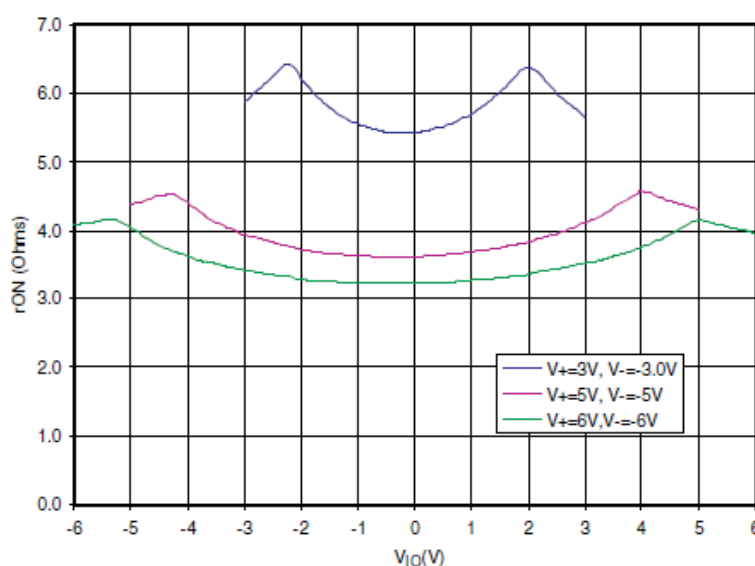
General Description:

The TS12A12511 is a single-pole double-throw (SPDT) analog switch capable of passing signals with swings of 0 to 12 V or -6 V to 6 V. This switch conducts equally well in both directions when it is on. It also offers a low ON-state resistance of 5 Ω (typical), which is matched to within 1 Ω between channels. The max current consumption is <1 μ A and -3 dB bandwidth is >93 MHz. The TS12A12511 exhibits break-before-make switching action, preventing momentary shorting when switching channels. This device is available packaged in an 8-lead MSOP, 8-lead SOT-23, and a 8-pin QFN.



Key Features:

- ± 2.7 V to ± 6 V Dual Supply
- 2.7 V to 12 V Single Supply
- 5- Ω (typ) ON-State Resistance
- 1.6- Ω (typ) ON-State Resistance Flatness
- 3.3-V, 5-V Compatible Digital Control Inputs
- Rail-to-Rail Analog Signal Handling
- Fast t_{ON} , t_{OFF} Times
- Tiny 8-Lead SOT-23, 8-Lead MSOP, and QFN-8 Packages
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested per JESD 22
 - 2000-V Human-Body Model (A114-B, Class II)
 - 1000-V Charged-Device Model (C101)



Applications:

- Automatic Test Equipment
- Power Routing

- Communication Systems
- Data Acquisition Systems
- Sample-and-Hold Systems
- Relay Replacement
- Battery-Powered Systems

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
TS12A12511DRJR	1782845	51R5930	SPDT Analog Switch IC