HV2701FG-G

Data Sheet

Low Charge Injection 16-Channel High Voltage Analog Switch with Bleed Resistors,Switch ICs - Various Lo-Charge 16-Channel High Voltage

Manufacturers	Microchip Technology, Inc
Package/Case	LQFP-48
Product Type	Interface ICs
RoHS	Green
Lifecycle	

Images are for reference only

Please submit RFQ for HV2701FG-G or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

HV2701 is a low charge injection, 16-channel, high voltage, analog switch integrated circuit (IC) with bleed resistors. The device can be used in applications requiring high voltage switching controlled by low voltage control signals, such as medical ultrasound imaging and piezoelectric transducer drivers. The bleed resistors eliminate voltage built up on capacitive loads such as piezoelectric transducers. Input data are shifted into a 16-bit shift register that can then be retained in a 16-bit latch. To reduce any possible clock feed-through noise, the latch enable bar should be left high until all bits are clocked in. Data is clocked in during the rising edge of the clock. Using HVCMOS technology, this device combines high voltage bilateral DMOS switches and low power CMOS logic to provide efficient control of high voltage analog signals.The device is suitable for various combinations of high voltage supplies, e.g., VPP/VNN: +40V/-160V, +100V/-100V, and +160V/-40V.

Features

HVCMOS technology for high performance

Integrated bleed resistors on the outputs

16-channel high voltage analog switch

3.3V input logic level compatible

20MHz data shift clock frequency

Very low quiescent power dissipation (-10μA)

Low parasitic capacitance

DC to 50MHz small signal frequency response

CMOS logic circuitry for low power

Excellent noise immunity

Cascadable serial data register with latches

Flexible operating supply voltages

Related Products

HV2601FG-G

Microchip Technology, Inc

LQFP-48

HV219PJ-G

Microchip Technology, Inc

PLCC-28

HV2901K6-G

Microchip Technology, Inc

QFN-64

PIC12HV752-I/MFVAO

Microchip Technology, Inc

DFN

PIC12HV752T-I/MFVAO

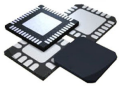
Microchip Technology, Inc

DFN

PIC12HV752T-E/MFVAO

Microchip Technology, Inc

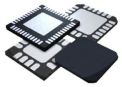
DFN



PIC16HV785T-E/ML

Microchip Technology, Inc

QFN



PIC16HV616T-I/MLVAO

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