

# SV7331

## 8KV ESD Protected, Wide Supply, High-Bandwidth, Dual 4:1 Analog Switch

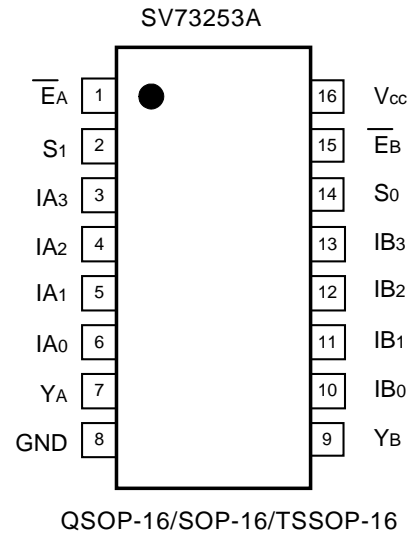
### Features

- Ultra Wide Operation Voltage: +1.65V to +5.5V
- Rail to rail analog signal level
- Low In-to-Out Ron: 3.5
- Robust ESD Protection: 8KV HBM, 400V MM
- Super-low quiescent current: 0.1uA (typ)
- Loss-less transmission
- Almost no propagation delay
- Built in undershoot clamping diodes
- CMOS/TTL compatible control inputs
- PI5V331 pin compatible
- Green & Pb-free packages:  
QSOP-16, SOP-16 and TSSOP-16

### Description

The SV7331 is an ultra-low Ron, low-power, high-bandwidth, high-speed rail to rail dual 4:1 analog switch. It is pin compatible with PI5V331 analog switch. With its built in undershoot clamping diodes on all control inputs and switch inputs that results in robust and reliable switching and protection.

### Pin Connection



### Function Table

$\overline{E}_A$	$\overline{E}_B$	S <sub>1</sub>	S <sub>2</sub>	Y <sub>A</sub>	Y <sub>B</sub>	Function
H	X	X	X	Hi-Z	X	Disable A
X	H	X	X	X	Hi-Z	Disable B
L	L	L	L	IA <sub>0</sub>	IB <sub>0</sub>	S <sub>1-0</sub> = 0
L	L	L	H	IA <sub>1</sub>	IB <sub>1</sub>	S <sub>1-0</sub> = 1
L	L	H	L	IA <sub>2</sub>	IB <sub>2</sub>	S <sub>1-0</sub> = 2
L	L	H	H	IA <sub>3</sub>	IB <sub>3</sub>	S <sub>1-0</sub> = 3

Note:

H = Logic High

L = Logic Low

### Ordering Information

Ordering Code	Operation Range	Package	Packing
SV7331-16QP-TR2	-40°C ~ +85°C	QSOP-16	Tape & Reel, 2500pcs
SV7331-16SP-TR2	-40°C ~ +85°C	SOP-16	Tape & Reel, 2500pcs
SV7331-16TP-TR3	-40°C ~ +85°C	TSSOP-16	Tape & Reel, 3000pcs

### Pin Description

PIN	DESCRIPTION
IA <sub>N</sub> , IB <sub>N</sub>	Data Inputs
S <sub>0</sub> , S <sub>1</sub>	Select Inputs
Y <sub>A</sub> , Y <sub>B</sub>	Data outputs
$\overline{E}_A$ , $\overline{E}_B$	Enable Inputs
GND	Ground
V <sub>CC</sub>	Power Supply