SV7330E

8KV ESD, Low Ron, Wide Bandwidth, Low Power, Quad SPDT Video Switch

Features

- Seamless Bidirectional Data Switching
- Roboust ESD protection: HBM 8KV
- Low Turn-On Resistance: 4.5Ω (V_{CC}=5V)
- Wide Bandwidth: -3dB BW = 480MHz
- High Off Isolation: –60dB
- Extreme Low Power Consumption: 0.4uA
- Single Vcc Supply: +1.8V ~ +5V
- Vcc Supply Accuracy: +/-10%
- Control Input Pins are compatible with TTL and 5V/3.3V CMOS
- Pb-free & Green Package: QSOP-16, SOP-16, TSSOP-16

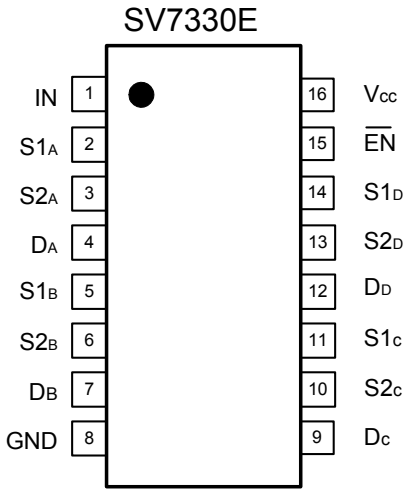
Description

The SV7330E is a high quality, low power, high-speed analog video switch. It features wide bandwidth, low turn-on resistance and low crosstalk that make it ideal for seamless composite and RGB SD and HD video switching applications

It can also function as a 4-bit 1-of-2 MUX/DEMUX for other high-speed data switching applications. A single switch-enable ($\overline{EN}$) input is used to enable or disable the switch. When $\overline{EN}$ is set at logic 'L', the D-port is connected to the S-port that shows low-Ron between D-port and S-port that enables the switch. When $\overline{EN}$ is set at logic 'H', the high-impedance state exists between the D and S ports that disable the switch. The select (IN) pin controls the input data path of the MUX/DEMUX. The device spec at high off- isolation, so it will maintain isolation during power down.

It is powered by a single +1.8 to +5V rail typically and consumes extremely low power.

Pin connection



QSOP-16/SOP-16/TSSOP-16

Pin Description

PIN	DESCRIPTION
S1,S2	Analog video I/Os
D	Analog video
IN	IN Select input
$\overline{EN}$	Switch-enable input

Function Table

INPUTS		INPUT/OUTPUT	FUNCTION
$\overline{EN}$	IN	D	
L	L	S1	D port = S1 port
L	H	S2	D port = S2 port
H	X	Z	Disconnected

Ordering Information

Ordering Code	Operation Range	Package	Packing
SV7330E-16QP-TR2	-40°C ~ +85°C	QSOP-16L	Tape & Reel, 2500pcs
SV7330E-16SP-TR2	-40°C ~ +85°C	SOP-16	Tape & Reel, 2500pcs
SV7330E-16TP-TR3	-40°C ~ +85°C	TSSOP-16	Tape & Reel, 3000pcs

Note:

SV - 7330SE - 16QP - TR2

- SV: SAVITECH
- 7330SE: Part Number
- 16QP: Package — 16QP: QSOP-16L; 16SP: SOP-16; 16TP: TSSOP-16
- TR2: Shipping — TR2: Tape & Reel, 2500pcs; TR3: Tape & Reel, 3000pcs