

# SV73257A

## 8KV ESD, Low-Voltage, High-Bandwidth Quad 2:1 MUX/DEMUX Bus Switch

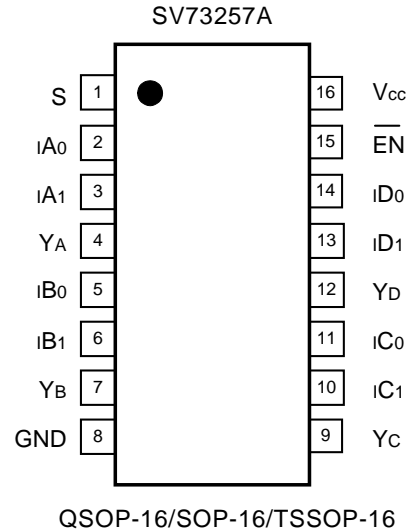
### Features

- Very low In-to-Out Ron: 4
- Super-low quiescent current : 0.1uA (typ)
- Loss-less transmission
- Almost no propagation delay
- Built in undershoot clamping diodes
- CMOS/TTL compatible control inputs
- 74F/FCT/LS/AS/ALS257 pin compatible
- Green & Pb-free packages:  
QSOP-16, SOP-16 and TSSOP-16

### Description

The SV73257A is an ultra-low Ron, low-power, high-bandwidth, high-speed CMOS/TTL-compatible Quad 2:1 multiplexer/demultiplexer bus switch. It is pin compatible with industry standard 74F/FCT/LS/AS/ALS257 logic devices. Its control inputs were not just designed to meet standard and LV CMOS/TTL logic level, but also designed to be used with most advanced chipset or SOC with 1.8V control inputs and outputs. It built in undershoot clamping diodes on all control inputs and switch inputs that results in robust and reliable switching.

### Pin Connection



### Function Table

| $\overline{EN}$ | S | Y <sub>A</sub>  | Y <sub>B</sub>  | Y <sub>C</sub>  | Y <sub>D</sub>  | Function |
|-----------------|---|-----------------|-----------------|-----------------|-----------------|----------|
| H               | X | Z               | Z               | Z               | Z               | Disable  |
| L               | L | I <sub>A0</sub> | I <sub>B0</sub> | I <sub>C0</sub> | I <sub>D0</sub> | S=0      |
| L               | L | I <sub>A1</sub> | I <sub>B1</sub> | I <sub>C1</sub> | I <sub>D1</sub> | S=1      |

Note:

H = Logic High  
L = Logic Low

### Pin Description

| PIN   | DESCRIPTION   |
|---|---------------|
| I <sub>A<sub>N</sub></sub> . I <sub>D<sub>N</sub></sub> | Data Inputs   |
| S   | Select inputs |
| L   | Enable        |
| Y <sub>A</sub> – Y <sub>D</sub>                         | Data outputs  |
| GND   | Ground        |
| V <sub>CC</sub>   | Power         |
| NC  | No connect    |

### Ordering Information

| Ordering Code     | Operation Range | Package  | Packing              |
|-------------------|-----------------|----------|----------------------|
| SV73257A-16QP-TR2 | -40°C ~ +85°C   | QSOP-16  | Tape & Reel, 2500pcs |
| SV73257A-16SP-TR2 | -40°C ~ +85°C   | SOP-16   | Tape & Reel, 2500pcs |
| SV73257A-16TP-TR3 | -40°C ~ +85°C   | TSSOP-16 | Tape & Reel, 3000pcs |