

SV73253C

8KV ESD Protected, Low-Voltage, High-Bandwidth, Dual 4:1 MUX/DEMUX Bus Switch

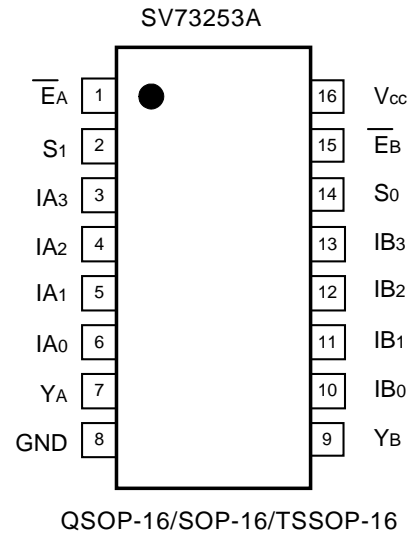
Features

- Extended Operation Voltage: +1.65V to +4.2V
- Low In-to-Out Ron: 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
- 74F/FCT/LS/ALS/LS253 pin compatible
- Green & Pb-free packages:
QSOP-16, SOP-16 and TSSOP-16

Description

The SV73253C is an ultra-low Ron, low-power, high-bandwidth, high-speed CMOS/TTL-compatible Dual 4:1 multiplexer/demultiplexer bus switch. It is pin compatible with industry standard 74F253, 74FCT253 and the 74ALS/ALS/LS253 logic devices. It built in undershoot clamping diodes on all control inputs and switch inputs that results in robust and reliable switching.

Pin Connection



Function Table

$\overline{E_A}$	$\overline{E_B}$	S ₁	S ₂	Y _A	Y _B	Function
H	X	X	X	Hi-Z	X	Disable A
X	H	X	X	X	Hi-Z	Disable B
L	L	L	L	IA ₀	IB ₀	S ₁₋₀ = 0
L	L	L	H	IA ₁	IB ₁	S ₁₋₀ = 1
L	L	H	L	IA ₂	IB ₂	S ₁₋₀ = 2
L	L	H	H	IA ₃	IB ₃	S ₁₋₀ = 3

Note:

H = Logic High

L = Logic Low

Ordering Information

Ordering Code	Operation Range	Package	Packing
SV73253C-16QP-TR2	-40°C ~ +85°C	QSOP-16	Tape & Reel, 2500pcs
SV73253C-16SP-TR2	-40°C ~ +85°C	SOP-16	Tape & Reel, 2500pcs
SV73253C-16TP-TR3	-40°C ~ +85°C	TSSOP-16	Tape & Reel, 3000pcs

Pin Description

PIN	DESCRIPTION
IA _N , IB _N	Data Inputs
S ₀ , S ₁	Select Inputs
Y _A , Y _B	Data outputs
$\overline{E_A}$, $\overline{E_B}$	Enable Inputs
GND	Ground
V _{CC}	Power Supply