

## Product Overview

### MC74LVX157: Quad 2-Channel Multiplexer (Mux)

For complete documentation, see the data sheet.

The MC74LVX157 is an advanced high speed CMOS quad 2-channel multiplexer. The inputs tolerate voltages up to 7V, allowing the interface of 5V systems to 3V systems.

It consists of four 2-input digital multiplexers with common select (S) and enable (E) inputs. When E is held High, selection of data is inhibited and all the outputs go Low.

The select decoding determines whether the I0n or I1n inputs get routed to the corresponding Zn outputs.

### Features

- High Speed:  $t_{PD} = 5.1\text{ns}$  (Typ) at  $V_{CC} = 3.3\text{V}$
- Low Power Dissipation:  $I_{CC} = 4\mu\text{A}$  (Max) at  $T_A = 25\text{C}$
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Low Noise:  $V_{OLP} = 0.5\text{V}$  (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300mA
- ESD Performance: HBM > 2000V; Machine Model > 200V
- Pb-Free Packages are Available\*

### Part Electrical Specifications

Product	Compliance	Status	Channels	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_O$ Max (mA)	Package Type
MC74LVX157DR2G	Pb-free	Active	4	2	3.6	11.4	null	SOIC-16
	Halide free							
MC74LVX157DTR2G	Pb-free	Active	4	2	3.6	11.4	null	TSSOP-16
	Halide free							

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