

## Product Overview

### MC74HC4851A: Analog Multiplexer/Demultiplexer (Mux/Demux) with Injection Current Effect Control

For complete documentation, see the data sheet.

Automotive Customized These devices are pin compatible to standard HC405x and MC1405xB analog mux/demux devices, but feature injection current effect control. This makes them especially suited for usage in automotive applications where voltages in excess of normal logic voltage are common. The injection current effect control allows signals at disabled analog input channels to exceed the supply voltage range without affecting the signal of the enabled analog channel. This eliminates the need for external diode/ resistor networks typically used to keep the analog channel signals within the supply voltage range. The devices utilize low power silicon gate CMOS technology. The Channel Select and Enable inputs are compatible with standard CMOS outputs.

### Features

- Injection Current Cross-Coupling Less than 1mV/mA (See Figure 9)
- Pin Compatible to HC405X and MC1405XB Devices
- Power Supply Range (VCC - GND) = 2.0 to 6.0 V
- In Compliance With the Requirements of JEDEC Standard No. 7A
- Chip Complexity: 154 FETs or 36 Equivalent Gates
- Pb-Free Packages are Available\*

## Part Electrical Specifications

Product	Compliance	Status	Channels	Number of Switches	Configuration	I <sub>cc</sub> Max (μA)	r <sub>on</sub> Max (Ω)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	Package Type
MC74HC4851ADG	Pb-free	Active	1	8	SP8T	40	550	2	6	SOIC-16
	Halide free									
MC74HC4851ADR2G	Pb-free	Active	1	8	SP8T	40	550	2	6	SOIC-16
	Halide free									
MC74HC4851ADTR2G	Pb-free	Active	1	8	SP8T	40	550	2	6	TSSOP-16
	Halide free									
MC74HC4851ADWR2G	Pb-free	Active	1	8	SP8T	40	550	2	6	SOIC-16W
	Halide free									
NLV74HC4851ADR2G	AEC Qualified	Active	1	8	SP8T	40	550	2	6	SOIC-16
	PPAP Capable									
	Pb-free									
	Halide free									
NLV74HC4851AMN1TWG	AEC Qualified	Active	1	8	sp8t	40	550	2	6	QFN-16
	PPAP Capable									
	Pb-free									
	Halide free									
NLV74HC4851AMNTWG	AEC Qualified	Active	1	8	SP8T	40	550	2	6	QFN-16
	PPAP Capable									
	Pb-free									
	Halide free									
NLVHC4851ADR2G	AEC Qualified	Active	1	8	SP8T	40	550	2	6	SOIC-16
	PPAP Capable									
	Pb-free									
	Halide free									
NLVHC4851ADTR2G	AEC Qualified	Active	1	8	SP8T	40	550	2	6	TSSOP-16
	PPAP Capable									
	Pb-free									
	Halide free									
NLVHC4851ADWR2G	AEC Qualified	Active	1	8	SP8T	40	550	2	6	SOIC-16W
	PPAP Capable									
	Pb-free									
	Halide free									
SCNLVHC4851ADTR2G	AEC Qualified	Active	1	8	SP8T	40	550	2	6	TSSOP-16
	PPAP Capable									
	Pb-free									
	Halide free									

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