

## Product Overview

### NL7SZ97: Flexible Choice Logic (9 Configurable Functions)

For complete documentation, see the data sheet.

The NL7SZ97 is an advanced high-speed CMOS multifunction gate. The device allows the user to choose logic functions MUX, AND, OR, NAND, NOR, INVERT and BUFFER. The device has Schmitt-trigger inputs, thereby enhancing noise immunity. The NL7SZ97 input and output structures provide protection when voltages up to 5.5 V are applied, irregardless of the supply voltage.

### Features

- High Speed:  $t_{PD} = 3.3 \text{ ns (Typ) @ } V_{CC} = 5.0 \text{ V}$
- Low Power Dissipation:  $I_{CC} = 1 \text{ A (Maximum) at } T_A = 25\text{C}$
- Power Down Protection Provided on inputs
- Balanced Propagation Delays
- Overvoltage Tolerant (OVT) Input and Output Pins
- Ultra-Small Package
- This is a Pb-Free Device

### Applications

- General Purpose Logic

### End Products

- Handheld: PDA, Digital Cameras, GPS

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Channels	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_O$ Max (mA)	Package Type
NL7SZ97DBVT1G	0.016	Pb-free Halide free	Active	SmartGate	1	1.65	5.5	2.5	32	SC-74
NL7SZ97DFT2G	0.06	Pb-free Halide free	Active	SmartGate	1	1.65	5.5	2.5	32	SC-88-6 / SC-70-6 / SOT-363-6
NLV7SZ97DFT2G	0.1155	AEC Qualified PPAP Capable Pb-free Halide free	Active	SmartGate	1	1.65	5.5	2.5	32	SC-88-6 / SC-70-6 / SOT-363-6

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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