

Product Overview

NL7SZ58: Flexible Choice Logic (9 Configurable Functions), Inverting

For complete documentation, see the data sheet.

The NL7SZ58 is an advanced high-speed CMOS multifunction gate. The device allows the user to choose logic functions AND, OR, NAND, NOR, XOR, INVERT and BUFFER. The device has Schmitt-trigger inputs, thereby enhancing noise immunity. The NL7SZ58 input and output structures provide protection when voltages up to 5.5 V are applied, irregardless of the supply voltage.

Features

- High Speed: $t_{PD} = 3.4 \text{ ns (Typ) @ } V_{CC} = 5.0 \text{ V}$
- 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 |
|---------------|-------------------|---|--------|-----------|----------|------------------|------------------|-------------------|----------------|-------------------------------------|
| NL7SZ58DFT2G | 0.0667 | Pb-free Halide free non AEC-Q and PPAP | Active | SmartGate | 3 | 1.65 | 5.5 | 2.5 | 32 | SC-88-6 / SC-70-6 / SOT-363-6 |
| NLV7SZ58DFT2G | 0.1219 | AEC Qualified PPAP Capable Pb-free Halide free | Active | SmartGate | 3 | 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.

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