

## Product Overview

### 74VCX08: Low Voltage Quad 2-Input AND Gate with 3.6V Tolerant Inputs and Outputs

For complete documentation, see the data sheet.

The VCX08 contains four 2-input AND gates. This product is designed for low voltage (1.2V to 3.6V)  $V_{CC}$  applications with I/O compatibility up to 3.6V. The VCX08 is fabricated with an advanced CMOS technology to achieve high-speed operation while maintaining low CMOS power dissipation.

#### Features

- 1.2V to 3.6V  $V_{CC}$  supply operation
- 3.6V tolerant inputs and outputs
- $t_{PD}$  2.8 ns max for 3.0V to 3.6V  $V_{CC}$
- Power-off high impedance inputs and outputs
- Static Drive ( $I_{OH}/I_{OL}$ )  $\pm 24$  mA @ 3.0V  $V_{CC}$
- Uses patented Quiet Series™ noise/EMI reduction circuitry
- Latchup performance exceeds 300 mA
- ESD performance: Human body model > 2000V Machine model > 250V
- Leadless Pb-Free DQFN package

#### Applications

- This product is general usage and suitable for many different applications.

#### Part Electrical Specifications

Product	Compliance	Status	Type	Channels	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$t_{pd}$ Max (ns)	$I_O$ Max (mA)	Package Type
74VCX08BQX	Pb-free	Active	AND	4	1.2	3.6	2.8	24	QFN-14
	Halide free								
74VCX08MTC	Pb-free	Active	AND	4	1.2	3.6	2.8	24	TSSOP-14 WB
	Halide free								
74VCX08MTCX	Pb-free	Active	AND	4	1.2	3.6	2.8	24	TSSOP-14 WB
	Halide free								
74VCX08MX	Pb-free	Active	AND	4	1.2	3.6	2.8	24	SOIC-14
	Halide free								

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Created on: 1/23/2019