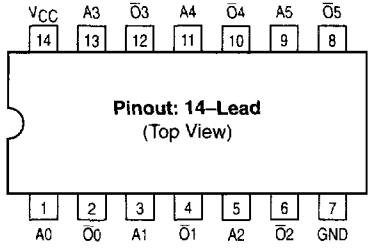
Product Preview

Low-Voltage CMOS Hex Inverter, Open Drain
With 5V-Tolerant Inputs

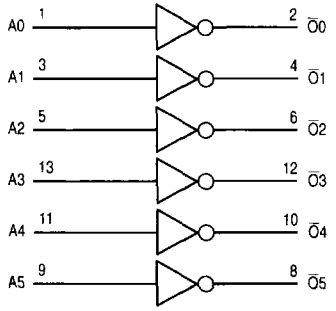
The MC74LCX05 is a high performance open drain hex inverter operating from a 2.7 to 3.6V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers. A V_I specification of 5.5V allows MC74LCX05 inputs to be safely driven from 5V devices.

The MC74LCX05 requires the addition of an external resistor to perform a wire–NOR function. The open drain output with a 5V pull–up resistor can be utilized to drive 5V CMOS inputs. Current drive capability is 24mA at the outputs.

- Designed for 2.7 to 3.6V V_{CC} Operation
- 5V Tolerant Inputs — Interface Capability With 5V TTL Logic
- LVTTL Compatible
- LVCMOS Compatible
- 24mA Output Sink Capability
- Near Zero Static Supply Current (10μA) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500mA
- ESD Performance: Human Body Model >2000V; Machine Model >200V



LOGIC DIAGRAM

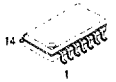


MC74LCX05

LCX

LOW–VOLTAGE CMOS HEX INVERTER OPEN DRAIN

D SUFFIX
PLASTIC SOIC
CASE 751A–03



M SUFFIX
PLASTIC SOIC EIAJ
CASE 965–01

SD SUFFIX
PLASTIC SSOP
CASE 940A–03

DT SUFFIX
PLASTIC TSSOP
CASE 948G–01

PIN NAMES

Pins	Function
An	Data Inputs
$\overline{O}$n	Outputs

FUNCTION TABLE

An	$\overline{O}$n
L	H
H	L