Product Overview

MC14517B: Dual 64-Bit Static Shift Register

For complete documentation, see the data sheet.

The MC14517B dual 64-bit static shift register consists of two identical, independent, 64-bit registers. Each register has separate clock and write enable inputs, as well as outputs at bits 16, 32, 48, and 64. Data at the data input is entered by clocking, regardless of the state of the write enable input. An output is disabled (open circuited) when the write enable input is high. During this time, data appearing at the data input as well as the 16-bit, 32-bit, and 48-bit taps may be entered into the device by application of a clock pulse. This feature permits the register to be loaded with 64 bits in 16 clock periods, and also permits bus logic to be used. This device is useful in time delay circuits, temporary memory storage circuits, and other serial shift register applications.

Features

- Diode Protection on All Inputs
- Fully Static Operation
- Output Transitions Occur on the Rising Edge of the Clock Pulse
- Exceedingly Slow Input Transition Rates May Be Applied to the Clock Input
- 3-State Output at 64th-Bit Allows Use in Bus Logic Applications
- Shift Registers of any Length may be Fully Loaded with 16 Clock Pulses
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Capable of Driving Two Low-power TTL Loads or One Low-power Schottky TTL Load Over the Rated Temperature Range
- Pb-Free Packages are Available

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
MC14517BDWG	Pb-free Halide free	Active	Shift Register	2	3	18	300	2.25	SOIC-16W
MC14517BDWR2G	Pb-free Halide free	Active	Shift Register	2	3	18	300	2.25	SOIC-16W

For more information please contact your local sales support at www.onsemi.com.

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