LVDS AC Specification

MT9M002

Data Sheet Addendum

For more information, refer to the MT9M002 data sheet on Micron's Web site: www.micron.com/imaging.

Introduction

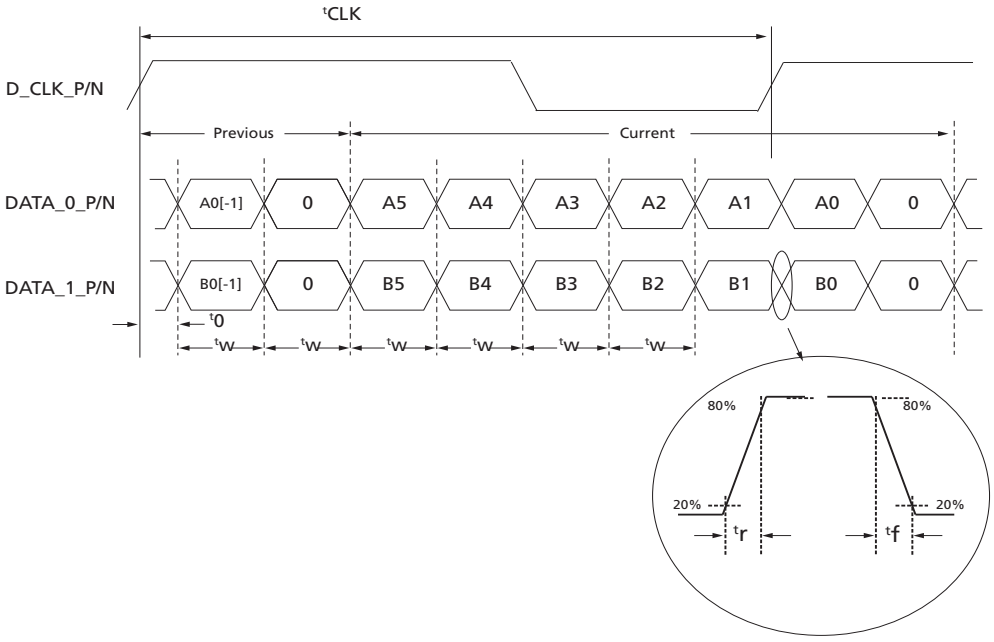
This document supplements Micron's MT9M002 advance data sheet (Revision B) with LVDS AC electrical characteristics. The standard CMOS digital image sensor data sheet should be referenced for a complete description of this 1/4.5-inch 1.6-Mp image sensor. The specifications contained in this addendum supersede the specifications listed in the referenced CMOS digital image sensor data sheet.

Table 1: AC Electrical Characteristics

Symbol	Parameter	Test Conditions[1]	Min	Typ	Max	Unit
^{t}r	LVDS data rise time	20–80%		230		ps
^{t}f	LVDS data fall time	80–20%		230		ps
$^{t}0$	D_CLK to Bit0 skew	D_CLK frequency is 99 MHz	–30	0	30	ps
^{t}w	Data bit width		1423	1443	1463	ps

Note: 1. The test results measured in LVDS 14-bit mode, VDDLVDS = 2.6V, Input clock frequency = 10.000000 MHz 50ppm.

Figure 1: AC Waveform and Symbol Definition



Addendum Changes

This addendum supplements the AC electrical specifications of MT9M002.

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Revision History

Rev. A 11/29/2007

- Initial release