Documentation Change Notice

Current Consumption Test Conditions

Manufacturer:	**Maxwell Technologies**
Product Effected:	**79C0832 Data Sheet**
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Type of Change Notification

Additions to 79C0832 data sheet electrical characteristics

Key Characteristics of the Change:

Revision[1]	12.06.02 REV 10	05.06.03 REV 12
Page 1	Logic Diagram	Added new logic diagram to include pull-up resistors on inputs
Table 2 – Absolute Maximum Ratings	N/A	1) Add Package Weights 2) Add Thermal Resistance
Table 4 – Delta Limits	Parameters	1) Parameter nomenclature changed to reflect changes in Table 6 2) Note added referencing MIL-STD-883
Table 5 - Capacitance	C_{IN} = 6 pf C_{OUT} = 48pf	C_{IN} RES = 48pf added to Input Capacitance C_{OUT}RDY/BSY = 6pf added to Output Capacitance C_{OUT}D0-D31 = 12pf added to Output Capacitance
Table 6 - DC Electrical Characteristics Input Leakage Standby Current 	 I_{LO} = 16uA V_{CC}=5.5V, Vin= 5.5V Not Specified Not Specified I_{CC1} = 80uA @ CE=V_{CC} I_{CC2} = 4maA @ CE=V_{IH} Not Specified Not Specified	 I_{LI} = 5uA @ V_{IN} = Vcc I_{LI} = 2.2mA @ V_{IN} = V_{IH} I_{LI} = 1.1mA @ V_{IN} = 0V I_{CC1A} = 80uA @ CE=ADDR=WE=OE=V_{CC} I_{CC1B} = 4maA @ CE=V_{IH} ; ADDR=WE=OE=V_{CC} I_{CC1C} = 45mA @ CE=ADDR=WE=OE=V_{IH} I_{CC1D} = 25mA @ CE= V_{IH} ; ADDR=WE=OE=0V

Operating Current	I_{CC3A} = 60mA I_{OUT} = 0mA, CE Duty = 100%, Cycle = 1 us at V_{CC} = 5.5V Not Specified I_{CC3B} = 200mA I_{OUT} = 0mA, CE Duty = 100%, Cycle = 150 ns at V_{CC} = 5.5V Not Specified	I_{CC2A} = 60mA @ OE = 0V ADDR=WE=V_{CC} I_{OUT} = 0mA, CE Duty = 100%, Cycle = 1 us at V_{CC} = 5.5V I_{CC2B} = 85mA @ OE =ADDR=WE=OE =0V I_{OUT} = 0mA, CE Duty = 100%, Cycle = 1 us at V_{CC} = 5.5V I_{CC2C} = 200mA @ OE = 0V ADDR=WE=OE =V_{CC} I_{OUT} = 0mA, CE Duty = 100%, Cycle = 150 ns at V_{CC} = 5.5V I_{CC2D} = 225mA @ OE =ADDR=WE=OE =0V I_{OUT} = 0mA, CE Duty = 100%, Cycle = 150 ns at V_{CC} = 5.5V
Figure 1 – Read Timing Waveform	WE labeled "High-Z"	WE label change to: "HIGH"
Data Protection 3. RES Signal	Bottom Waveform Labeled: 1uS, 100uS, ***10uS***	Change to: 1uS, 100uS, ***10mS***

1) Revision 11 was an internal release only.

Description of Change

In revision 10 of the 79C0832 data sheet, and all previous revisions, ICC specifications did not include the current consumed by the 5.5K-ohm pull-up resistors on the control inputs. There are 22 control inputs with pull-up resistors. When a control input is at a logic 0V the pull-up resistor can consume as much as 1.2mA. When all control inputs are at a logic low, the additional current consumed by the pull-up resistors can be as much as 26.8mA. Worst-case conditions have been added to the data sheet, and have been incorporated in production test software, to include the current drawn by the pull-up resistors.

Customer Impact of Change

This is a data sheet change and not a manufacturing change. **There has been no change in Form, Fit or Function.** This data sheet change has no impact to device performance or application.

The revised datasheet is available on the Maxwell Technologies website.