



**PRODUCT BULLETIN**  
Generic Copy

**11-Apr-2006**

**SUBJECT: ON Semiconductor Product Bulletin #15508**

**TITLE: Typographical Error Update for MC100LVEP111, MC10/100ELT20, and the MC10/100H640 Devices.**

**EFFECTIVE DATE: 11-Apr-2006**

**AFFECTED PRODUCT DIVISION: Analog Power Management**

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor sales office or Gregg Hooker <FFMGNR@onsemi.com>

**NOTIFICATION TYPE:**

ON Semiconductor considers this change approved unless specific conditions of acceptance are provided in writing. To do so, contact your local ON Semiconductor sales office.

**DESCRIPTION AND PURPOSE:**

ON Semiconductor is correcting typographical error's in its Datasheets for the IEE Specification for the MC100LVEP111, the TPLH at 25 deg C for the MC10/100ELT20, and the TPLH values for the ECL and TTL values for the MC10/100H640 devices.

- 1.) The MC100LVEP111 NECL and PECL datasheet DC IEE limits are defined

**Existing IEE Power Supply Current**

Symbol	-40 deg C			25 deg C			85 deg C		
	min	typ	max	min	typ	max	min	typ	max
IEE (mA)	70	100	120	70	100	120	70	100	120

**Corrected IEE Power Supply Current**

Symbol	-40 deg C			25 deg C			85 deg C		
	min	typ	max	min	typ	max	min	typ	max
IEE (mA)	<b>60</b>	<b>90</b>	120	<b>60</b>	<b>90</b>	120	<b>60</b>	<b>90</b>	120

- 2.) The MC10ELT20 and MC100ELT20 datasheet AC TPLH limits are defined

**Existing TPLH Propagation Delay**

Symbol	-40 deg C			25 deg C			85 deg C		
	min	typ	max	min	typ	max	min	typ	max
TPLH (nS)	0.6		1.2	0.9	1.2	1.5	0.6		1.35



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**Corrected TPLH Propagation Delay**

Symbol	-40 deg C			25 deg C			85 deg C		
	min	typ	max	min	typ	max	min	typ	max
TPLH (nS)	0.6		1.2	<b>0.6</b>		<b>1.25</b>	0.6		1.35

3.) The MC10H640 and MC100H640 datasheet AC TPLH limits are defined

**Existing TPLH Propagation Delay for ECL (D to Output)**

Symbol	0 deg C		25 deg C		85 deg C	
	min	max	min	max	min	max
TPLH (nS) Q0-Q3	4.9	5.9	4.9	5.9	5.2	6.2
TPLH (nS) Q0B-Q3B	4.9	5.9	4.9	5.9	5.2	6.2
TPLH (nS) Q4-Q5	4.9	5.9	4.9	5.9	5.2	6.2

**Existing TPLH Propagation Delay for TTL (D to Output)**

Symbol	0 deg C		25 deg C		85 deg C	
	min	max	min	max	min	max
TPLH (nS) Q0-Q3	5.0	6.0	5.0	6.0	5.3	6.3
TPLH (nS) Q0B-Q3B	5.0	6.0	5.0	6.0	5.3	6.3
TPLH (nS) Q4-Q5	5.0	6.0	5.0	6.0	5.3	6.3

**Corrected TPLH Propagation Delay for ECL (D to Output)**

Symbol	0 deg C		25 deg C		85 deg C	
	min	max	min	max	min	max
TPLH (nS) Q0-Q3	<b>4.0</b>	<b>6.0</b>	<b>4.0</b>	<b>6.0</b>	<b>4.2</b>	6.2
TPLH (nS) Q0B-Q3B	<b>4.0</b>	<b>6.0</b>	<b>4.0</b>	<b>6.0</b>	<b>4.2</b>	6.2
TPLH (nS) Q4-Q5	<b>4.0</b>	<b>6.0</b>	<b>4.0</b>	<b>6.0</b>	<b>4.2</b>	6.2

**Corrected TPLH Propagation Delay for TTL (D to Output)**

Symbol	0 deg C		25 deg C		85 deg C	
	min	max	min	max	min	max
TPLH (nS) Q0-Q3	<b>4.0</b>	6.0	<b>4.0</b>	6.0	<b>4.3</b>	6.3
TPLH (nS) Q0B-Q3B	<b>4.0</b>	6.0	<b>4.0</b>	6.0	<b>4.3</b>	6.3
TPLH (nS) Q4-Q5	<b>4.0</b>	6.0	<b>4.0</b>	6.0	<b>4.3</b>	6.3



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**AFFECTED DEVICE LIST (WITHOUT SPECIALS):**

**PART**

MC100LVEP111FA  
MC100LVEP111FAR2  
MC100LVEP111FAG  
MC100LVEP111FARG  
MC100LVEP111MNG  
MC100LVEP111MNRG

MC10ELT20D  
MC10ELT20DR2  
MC10ELT20DG  
MC10ELT20DR2G  
MC10ELT20DT  
MC10ELT20DTR2  
MC10ELT20DTG  
MC10ELT20DTR2G

MC100ELT20D  
MC100ELT20DR2  
MC100ELT20DG  
MC100ELT20DR2G  
MC100ELT20DT  
MC100ELT20DTR2  
MC100ELT20DTG  
MC100ELT20DTR2G

MC10H640FN  
MC10H640FNR2  
MC10H640FNG  
MC10H640FNR2G  
MC100H640FN  
MC100H640FNR2  
MC100H640FNG  
MC100H640FNR2G