PCN Number:			20131007000				PCN Date:		10/10/2013		
Title: TUSB8040A D			Data	Sh	eet						
Customer Contact:		PCN Manager		Phone:	+1(214) 480-	214) 480-6037		Qua	Quality Services		
Change Type:											
Assembly Site				Assembly Process			Assembly Materials				
Design			\boxtimes	Electrical Specification			Mechanical Specification				
Test Site				Packing/Shipping/Labeling			Test Process				
Wafer Bump Site				Wafer Bump Material			Wafer Bump Process				
Wafer Fab Site				Wafer Fab Materials Wafer Fab Proces		cess					
					Part nu	mber cha	inge				
PCN Details											

Description of Change:

The product datasheet(s) is being update, to add feature and add VBUS max.

The following change history provides further details. These changes may be reviewed at the datasheet links provided

From (Page 5):

1 PRODUCT OVERVIEW

- 1.1 Features
- Supports On-Board and In-System EEPROM Programming Via the USB 2.0 Upstream Port
- Single Clock Input, 24-MHz Crystal or Oscillator

To (Page 5):

1 PRODUCT OVERVIEW

1.1 Features

- . Supports On-Board and In-System EEPROM Programming Via the USB 2.0 Upstream Port
- · Single Clock Input, 24-MHz Crystal or Oscillator
- No Special Driver Requirements; Works Seamlessly With Any Operating System With USB Stack Support

From (Page 9):

2.3 USB Upstream Signals

Table 2-3. USB Upstream Signals

USB_R1	PT	A50	Precision resistor reference. A 9.09-kΩ ±1% resistor should be connected between USB_R1 and USB_R1RTN.
USB_R1RTN	PT	B47	Precision resistor reference return
USB_VBUS	I	B44	USB upstream port power monitor. The VBUS detection requires a voltage divider. The signal USB_VBUS must be connected to VBUS through a 90.9-k Ω ±1% resistor, and to ground through a 10-k Ω ±1% resistor from the signal to ground.

To (Page 9):

2.3 USB Upstream Signals

Table 2-3. USB Upstream Signals

USB_R1	PT	A50	Precision resistor reference. A 9.09-kΩ ±1% resistor should be connected between USB_R1 and USB_R1RTN.
USB_R1RTN	PT B47 Precision resistor reference retu		Precision resistor reference return
USB_VBUS	1	B44	USB Upstream port power monitor. The USB_VBUS input is a 1.2-V I/O cell and requires a voltage divider to prevent damage to the input. The signal USB_VBUS must be connected to VBUS through a 90.9-k Ω ±1% resistor, and to signal ground through a 10-k Ω ±1% resistor. This allows the input to detect VBUS present from a minimum of 4 V and sustain a maximum VBUS voltage up to 10 V (applied to the voltage divider).

From (page 28):

6.1 Absolute Maximum Ratings (1)

over operating free-air temperature range (unless otherwise noted)

		VALUE	UNIT
V_{DD33}	Supply voltage	-0.3 to 3.8	V
V _{DD11}	Supply voltage	-0.3 to 1.4	V
T _{stg}	Storage temperature range	-65 to 150	°C

To (page 28):

6.1 Absolute Maximum Ratings (1)

over operating free-air temperature range (unless otherwise noted)

		VALUE	UNIT
V _{DD33}	Steady state supply voltage	-0.3 to 3.8	V
V _{DD11}	Steady-state supply voltage	-0.3 to 1.4	v
V _{IO}	USB 2.0 DP/DM	-0.3 to VDD33 + 0.3 ≤ 3.8	
	SuperSpeed USB TXP/M and RXP/M	-0.3 to VDD33 + 0.3 ≤ 3.8	V
	XI/XO	-0.3 to 1.98	·
	3.3-V Tolerant I/O	-0.3 to VDD33 + 0.3 ≤ 3.8	
V _{USB} v _{BUS}	S	-0.3 to 1.2	V
T _{stg}	Storage temperature range	-65 to 150	°C

From (page 28):

6.2 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)

		MIN	NOM	MAX	UNIT
V_{DD33}	Supply voltage	3	3.3	3.6	٧
V _{DD11} ⁽¹⁾		0.99	1.100	1.26	
TA	Operating free-air temperature range	0	25	70	°C
T_{J}	Operating junction temperature range	0	25	105	°C

To (page 28):

6.2 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)

		MIN	NOM	MAX	UNIT
V _{DD33}	Steady-state supply voltage	3	3.3	3.6	V
V _{DD11} (1)) Steady-state supply voltage	0.99	1.1	1.26	٧
	USB 2.0 DP/DM	0		VDD33	
V _{IO}	SuperSpeed USB TXP/M and RXP/M			VDD33	v
	XI/XO	0		1.8	V
	3.3-V Tolerant I/O	0		VDD33	
V _{USB} v _B	BUS	0		1.155	٧
TA	Operating free-air temperature range	0	25	70	°C
TJ	Operating junction temperature range	0	25	105	°C

The datasheet number will be changing.

Device Family	Change From:	Change To:
TUSB8040A	SLLSEA7E	SLLSEA7F

The updated datasheet(s) can be accessed by the following link(s): http://www.ti.com/product/tusb8040a

Reason for Change:

To more accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

Electrical specification performance changes as indicated above.

Changes to product identification resulting from this PCN:

None

Product Affected:

TUSB8040ARKMR	TUSB8040ARKMT	

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com