



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

<b>PCN #:</b> I1106-03 <b>Product Affected:</b> 89HPEB383 (Refer to Attachment I)  <b>Date Effective:</b> <b>October 15, 2011</b>	<b>DATE:</b> <b>July 15, 2011</b>	<b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b> <input checked="" type="checkbox"/> Product Mark      Change in Ordering Part Number <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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<b>Contact:</b> PS Tow <b>Title:</b> Director, Product Assurance <b>Phone #:</b> (408) 284-8206 <b>Fax #:</b> (408) 284-1450 <b>E-mail:</b> <a href="mailto:pstow@idt.com">pstow@idt.com</a>	<b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Samples:</b> Contact your local IDT sales representative for sample requests.
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**DESCRIPTION AND PURPOSE OF CHANGE:**

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other - Die Revision Change	<p>This notification is to advise our customers that IDT has qualified a new die revision to add the new functionality. The device die revision will change from "ZC" to "ZD". There will be a change in ordering part number and device top mark from "ZA" to "ZB".</p> <p>There is no change in die technology/process.</p> <p>Please see attachment for details.</p>
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**RELIABILITY/QUALIFICATION SUMMARY:**  
See attached data. There is no change in die technology/process.

**CUSTOMER ACKNOWLEDGMENT OF RECEIPT:**  
 IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.  
 IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone # /Fax #: _____

**CUSTOMER COMMENTS:** \_\_\_\_\_

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**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_      DATE: \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: I1106-03

**PCN Type:** Die Revision Change

**Data Sheet Change:** No

**Detail of Change:**

This notification is to advise our customers that IDT has qualified a new die revision to add the new functionality. The device die revision will change from "ZC" to "ZD". There will be a change in ordering part number and device top mark from "ZA" to "ZB" as shown in Table 1.

**Table 1**

Old Ordering Part Number	New Ordering Part Number	Old Ordering Part Number	New Ordering Part Number
89HPEB383ZAEM	89HPEB383ZBEM	89HPEB383ZAEMI	89HPEB383ZBEMI
89HPEB383ZAEM8	89HPEB383ZBEM8	89HPEB383ZAEMI8	89HPEB383ZBEMI8
89HPEB383ZAEMG	89HPEB383ZBEMG	89HPEB383ZANQG	89HPEB383ZBNQG
89HPEB383ZAEMG8	89HPEB383ZBEMG8	89HPEB383ZANQG8	89HPEB383ZBNQG8
89HPEB383ZAEMGI	89HPEB383ZBEMGI	89HPEB383ZANQGI	89HPEB383ZBNQGI
89HPEB383ZAEMGI8	89HPEB383ZBEMGI8	89HPEB383ZANQGI8	89HPEB383ZBNQGI8

**Qualification Test Plan and Result:**

Qualification Plan #: QI-10-03  
Qual Vehicle: 89HPEB383

Test Description	Test Method (Latest specs in effect)	Test Results (SS / Rej)
Infant Mortality (EFR) 125°C@40 Hrs	JESD22A-108-B	200/0
Operating Lifetest (Dynamic) 125°C@1000 Hrs *	JESD22A-108B	568/0
ESD: Human Body Model @ 2000V	JESD22 A114-E	3/0
ESD: Charged Device Model @ 500V	JESD22-C101	3/0
ESD: Machine Model @ 200V	JESD22, A115	3/0
Latch-up	JESD78	6/0

Note: \* Similar Process Data