



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **TP1910-01** Date: October 14, 2019  
Product Affected: Please refer to Pages 2-4 for affected part numbers  
Date Effective: January 14, 2020

### MEANS OF DISTINGUISHING CHANGED DEVICES:

- Product Mark
- Back Mark
- Date Code
- Other

Orderable Part Number with "B"

Contact: IDT Support

E-mail: [support-mmt@idt.com](mailto:support-mmt@idt.com)

Samples: Available on request

### DESCRIPTION AND PURPOSE OF CHANGE:

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other - Die Revision Change

This notification is to advise our customers of a design improvement to the select part numbers.

#### Reason for Change:

VBAT power domain is required to power up before, or concurrently, with the rest of the VDD power domains on the device. If this power sequence is not followed 32.768KHz output clock will be present on the SE outputs regardless of programmed settings.

#### Description of Change:

A design improvement has been implemented to include the VBAT power domain in the Power-On-Reset (POR) logic. All power supplies applied to the device can now ramp at any given sequence.

A new orderable part number will distinguish this change. The current part number will be discontinued as of the effective date on this notice. The new part is available to ship now. The effective date of this change is January 14 2020, however IDT recommends the customer accepts this change immediately to benefit from the design improvement.

### RELIABILITY/QUALIFICATION SUMMARY:

Qualification and characterization have been successfully completed.

This change has no impact to datasheet parameters or functionality of the device.

### CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please 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.



## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### PCN# TP1910-01

**PCN Type:** Die revision change

**Affected Parts:**

Current Part Number	New Part Number
5P35023-000NLGI	5P35023B-000NLGI
5P35023-000NLGI8	5P35023B-000NLGI8
5P35023-002NLGI	5P35023B-002NLGI
5P35023-002NLGI8	5P35023B-002NLGI8
5P35023-005NLGI	5P35023B-005NLGI
5P35023-005NLGI8	5P35023B-005NLGI8
5P35023-006NLGI	5P35023B-006NLGI
5P35023-006NLGI8	5P35023B-006NLGI8
5P35023-103NLGI	5P35023B-103NLGI
5P35023-103NLGI8	5P35023B-103NLGI8
5P35023-106NLGI	5P35023B-106NLGI
5P35023-106NLGI8	5P35023B-106NLGI8
5P35023-109NLGI	5P35023B-109NLGI
5P35023-109NLGI8	5P35023B-109NLGI8
5P35023-110NLGI	5P35023B-110NLGI
5P35023-110NLGI8	5P35023B-110NLGI8
5P35023-114NLGI	5P35023B-114NLGI
5P35023-114NLGI8	5P35023B-114NLGI8
5P35023-115NLGI	5P35023B-115NLGI
5P35023-115NLGI8	5P35023B-115NLGI8
5P35023-116NLGI	5P35023B-116NLGI
5P35023-116NLGI8	5P35023B-116NLGI8
5P35023-117NLGI	5P35023B-117NLGI
5P35023-117NLGI8	5P35023B-117NLGI8
5P35023-118NLGI	5P35023B-118NLGI
5P35023-118NLGI8	5P35023B-118NLGI8
5P35023-121NLGI	5P35023B-121NLGI
5P35023-121NLGI8	5P35023B-121NLGI8
5P35023-123NLGI	5P35023B-123NLGI
5P35023-123NLGI8	5P35023B-123NLGI8
5P35023-125NLGI	5P35023B-125NLGI
5P35023-125NLGI8	5P35023B-125NLGI8
5P35023-129NLGI	5P35023B-129NLGI
5P35023-129NLGI8	5P35023B-129NLGI8
5P35023-130NLGI	5P35023B-130NLGI
5P35023-130NLGI8	5P35023B-130NLGI8
5P35023-132NLGI	5P35023B-132NLGI
5P35023-132NLGI8	5P35023B-132NLGI8
5P35023-133NLGI	5P35023B-133NLGI
5P35023-133NLGI8	5P35023B-133NLGI8

Current Part Number	New Part Number
5P35023-134NLGI	5P35023B-134NLGI
5P35023-134NLGI8	5P35023B-134NLGI8
5P35023-135NLGI	5P35023B-135NLGI
5P35023-135NLGI8	5P35023B-135NLGI8
5P35023-136NLGI	5P35023B-136NLGI
5P35023-136NLGI8	5P35023B-136NLGI8
5P35023-137NLGI	5P35023B-137NLGI
5P35023-137NLGI8	5P35023B-137NLGI8
5P35023-138NLGI	5P35023B-138NLGI
5P35023-138NLGI8	5P35023B-138NLGI8
5P35023-139NLGI	5P35023B-139NLGI
5P35023-139NLGI8	5P35023B-139NLGI8
5P35023-140NLGI	5P35023B-140NLGI
5P35023-140NLGI8	5P35023B-140NLGI8
5P35023-141NLGI	5P35023B-141NLGI
5P35023-141NLGI8	5P35023B-141NLGI8
5P35023-142NLGI	5P35023B-142NLGI
5P35023-142NLGI8	5P35023B-142NLGI8
5P35023-143NLGI	5P35023B-143NLGI
5P35023-143NLGI8	5P35023B-143NLGI8
5P35023-144NLGI	5P35023B-144NLGI
5P35023-144NLGI8	5P35023B-144NLGI8
5P35023-145NLGI	5P35023B-145NLGI
5P35023-145NLGI8	5P35023B-145NLGI8
5P35023-146NLGI	5P35023B-146NLGI
5P35023-146NLGI8	5P35023B-146NLGI8
5P35023-147NLGI	5P35023B-147NLGI
5P35023-147NLGI8	5P35023B-147NLGI8
5P35023-148NLGI	5P35023B-148NLGI
5P35023-148NLGI8	5P35023B-148NLGI8
5P35023-149NLGI	5P35023B-149NLGI
5P35023-149NLGI8	5P35023B-149NLGI8
5P35023-150NLGI	5P35023B-150NLGI
5P35023-150NLGI8	5P35023B-150NLGI8
5P35023-151NLGI	5P35023B-151NLGI
5P35023-151NLGI8	5P35023B-151NLGI8
5P35023-152NLGI	5P35023B-152NLGI
5P35023-152NLGI8	5P35023B-152NLGI8
5P35023-153NLGI	5P35023B-153NLGI
5P35023-153NLGI8	5P35023B-153NLGI8



## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### PCN# TP1910-01

**Affected Parts:**

Current Part Number	New Part Number	Current Part Number	New Part Number
5P35023-154NLGI	5P35023B-154NLGI	5P35021-119NDGI8	5P35021B-119NDGI8
5P35023-154NLGI8	5P35023B-154NLGI8	5P35021-122NDGI	5P35021B-122NDGI
5P35023-155NLGI	5P35023B-155NLGI	5P35021-122NDGI8	5P35021B-122NDGI8
5P35023-155NLGI8	5P35023B-155NLGI8	5P35021-124NDGI	5P35021B-124NDGI
5P35023-156NLGI	5P35023B-156NLGI	5P35021-124NDGI8	5P35021B-124NDGI8
5P35023-156NLGI8	5P35023B-156NLGI8	5P35021-129NDGI	5P35021B-129NDGI
5P35023-157NLGI	5P35023B-157NLGI	5P35021-129NDGI8	5P35021B-129NDGI8
5P35023-157NLGI8	5P35023B-157NLGI8	5P35021-132NDGI	5P35021B-132NDGI
5P35023-158NLGI	5P35023B-158NLGI	5P35021-132NDGI8	5P35021B-132NDGI8
5P35023-158NLGI8	5P35023B-158NLGI8	5P35021-134NDGI	5P35021B-134NDGI
5P35023-159NLGI	5P35023B-159NLGI	5P35021-134NDGI8	5P35021B-134NDGI8
5P35023-159NLGI8	5P35023B-159NLGI8	5P35021-135NDGI	5P35021B-135NDGI
5P35023-160NLGI	5P35023B-160NLGI	5P35021-135NDGI8	5P35021B-135NDGI8
5P35023-160NLGI8	5P35023B-160NLGI8	5P35021-138NDGI	5P35021B-138NDGI
5P35023-161NLGI	5P35023B-161NLGI	5P35021-138NDGI8	5P35021B-138NDGI8
5P35023-161NLGI8	5P35023B-161NLGI8	5P35021-139NDGI	5P35021B-139NDGI
5P35023-162NLGI	5P35023B-162NLGI	5P35021-139NDGI8	5P35021B-139NDGI8
5P35023-162NLGI8	5P35023B-162NLGI8	5P35021-140NDGI	5P35021B-140NDGI
5P35023-600NLGI	5P35023B-600NLGI	5P35021-140NDGI8	5P35021B-140NDGI8
5P35023-600NLGI8	5P35023B-600NLGI8	5P35021-141NDGI	5P35021B-141NDGI
5P35023-601NLGI	5P35023B-601NLGI	5P35021-141NDGI8	5P35021B-141NDGI8
5P35023-601NLGI8	5P35023B-601NLGI8	5P35021-142NDGI	5P35021B-142NDGI
5P35023-602NLGI	5P35023B-602NLGI	5P35021-142NDGI8	5P35021B-142NDGI8
5P35023-602NLGI8	5P35023B-602NLGI8	5P35021-143NDGI	5P35021B-143NDGI
5P35023-603NLGI	5P35023B-603NLGI	5P35021-143NDGI8	5P35021B-143NDGI8
5P35023-603NLGI8	5P35023B-603NLGI8	5P35021-144NDGI	5P35021B-144NDGI
5P35023-605NLGI	5P35023B-605NLGI	5P35021-144NDGI8	5P35021B-144NDGI8
5P35023-605NLGI8	5P35023B-605NLGI8	5P35021-145NDGI	5P35021B-145NDGI
5P35023-608NLGI	5P35023B-608NLGI	5P35021-145NDGI8	5P35021B-145NDGI8
5P35023-608NLGI8	5P35023B-608NLGI8	5P35021-146NDGI	5P35021B-146NDGI
5P35023-611NLGI	5P35023B-611NLGI	5P35021-146NDGI8	5P35021B-146NDGI8
5P35023-611NLGI8	5P35023B-611NLGI8	5P35021-148NDGI	5P35021B-148NDGI
5P35023-619NLGI	5P35023B-619NLGI	5P35021-148NDGI8	5P35021B-148NDGI8
5P35023-619NLGI8	5P35023B-619NLGI8	5P35021-150NDGI	5P35021B-150NDGI
5P35021-000NDGI	5P35021B-000NDGI	5P35021-150NDGI8	5P35021B-150NDGI8
5P35021-000NDGI8	5P35021B-000NDGI8	5P35021-151NDGI	5P35021B-151NDGI
5P35021-001NDGI	5P35021B-001NDGI	5P35021-151NDGI8	5P35021B-151NDGI8
5P35021-001NDGI8	5P35021B-001NDGI8	5P35021-152NDGI	5P35021B-152NDGI
5P35021-003NDGI	5P35021B-003NDGI	5P35021-152NDGI8	5P35021B-152NDGI8
5P35021-003NDGI8	5P35021B-003NDGI8	5P35021-154NDGI	5P35021B-154NDGI
5P35021-108NDGI	5P35021B-108NDGI	5P35021-154NDGI8	5P35021B-154NDGI8
5P35021-108NDGI8	5P35021B-108NDGI8	5P35021-155NDGI	5P35021B-155NDGI
5P35021-112NDGI	5P35021B-112NDGI	5P35021-155NDGI8	5P35021B-155NDGI8
5P35021-112NDGI8	5P35021B-112NDGI8	5P35021-156NDGI	5P35021B-156NDGI
5P35021-113NDGI	5P35021B-113NDGI	5P35021-156NDGI8	5P35021B-156NDGI8
5P35021-113NDGI8	5P35021B-113NDGI8	5P35021-157NDGI	5P35021B-157NDGI
5P35021-119NDGI	5P35021B-119NDGI	5P35021-157NDGI8	5P35021B-157NDGI8



## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### PCN# TP1910-01

**Affected Parts:**

Current Part Number	New Part Number
5P35021-158NDGI	5P35021B-158NDGI
5P35021-158NDGI8	5P35021B-158NDGI8
5P35021-159NDGI	5P35021B-159NDGI
5P35021-159NDGI8	5P35021B-159NDGI8
5P35021-160NDGI	5P35021B-160NDGI
5P35021-160NDGI8	5P35021B-160NDGI8
5P35021-161NDGI	5P35021B-161NDGI
5P35021-161NDGI8	5P35021B-161NDGI8
5P35021-162NDGI	5P35021B-162NDGI
5P35021-162NDGI8	5P35021B-162NDGI8
5P35021-163NDGI	5P35021B-163NDGI
5P35021-163NDGI8	5P35021B-163NDGI8
5P35021-164NDGI	5P35021B-164NDGI
5P35021-164NDGI8	5P35021B-164NDGI8
5P35021-165NDGI	5P35021B-165NDGI
5P35021-165NDGI8	5P35021B-165NDGI8
5P35021-166NDGI	5P35021B-166NDGI
5P35021-166NDGI8	5P35021B-166NDGI8
5P35021-608NDGI	5P35021B-608NDGI
5P35021-608NDGI8	5P35021B-608NDGI8
5L35023-000NLGI	5L35023B-000NLGI
5L35023-000NLGI8	5L35023B-000NLGI8
5L35023-100NLGI	5L35023B-100NLGI
5L35023-100NLGI8	5L35023B-100NLGI8
5L35023-101NLGI	5L35023B-101NLGI
5L35023-101NLGI8	5L35023B-101NLGI8
5L35023-103NLGI	5L35023B-103NLGI
5L35023-103NLGI8	5L35023B-103NLGI8

Current Part Number	New Part Number
5L35023-104NLGI	5L35023B-104NLGI
5L35023-104NLGI8	5L35023B-104NLGI8
5L35023-105NLGI	5L35023B-105NLGI
5L35023-105NLGI8	5L35023B-105NLGI8
5L35023-106NLGI	5L35023B-106NLGI
5L35023-106NLGI8	5L35023B-106NLGI8
5L35023-600NLGI	5L35023B-600NLGI
5L35023-600NLGI8	5L35023B-600NLGI8
5L35023-601NLGI	5L35023B-601NLGI
5L35023-601NLGI8	5L35023B-601NLGI8
5L35021-000NDGI	5L35021B-000NDGI
5L35021-000NDGI8	5L35021B-000NDGI8
5L35021-001NDGI	5L35021B-001NDGI
5L35021-001NDGI8	5L35021B-001NDGI8
5L35021-101NDGI	5L35021B-101NDGI
5L35021-101NDGI8	5L35021B-101NDGI8
5L35021-102NDGI	5L35021B-102NDGI
5L35021-102NDGI8	5L35021B-102NDGI8
5L35021-104NDGI	5L35021B-104NDGI
5L35021-104NDGI8	5L35021B-104NDGI8
5X35023-000NXGI	5X35023B-000NXGI
5X35023-000NXGI8	5X35023B-000NXGI8
5X35023-001NXGI	5X35023B-001NXGI
5X35023-001NXGI8	5X35023B-001NXGI8
5X35023-002NXGI	5X35023B-002NXGI
5X35023-002NXGI8	5X35023B-002NXGI8
5X35023-003NXGI	5X35023B-003NXGI
5X35023-003NXGI8	5X35023B-003NXGI8