



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **PA1510-01** Date: November 13, 2015

Product Affected: P9036BNTGI, P9036BNTGI8

Date Effective: December 13, 2015

MEANS OF DISTINGUISHING CHANGED DEVICES:

- ☐ Product Mark
☐ Back Mark
☒ Date Code 1544 and above
☐ Other

Contact: IDT PCN DESK

Attachment: ☒ Yes ☐ No

E-mail: pcndesk@idt.com

Samples: Please contact your local sales representative for sample request.

DESCRIPTION AND PURPOSE OF CHANGE:

- ☐ Die Technology
☐ Wafer Fabrication Process
☐ Assembly Process
☐ Equipment
☐ Material
☒ Testing
☐ Manufacturing Site
☐ Data Sheet
☐ Other

This notification is to advise our customers that P9036BNTGI(8) has been upgraded to enable firmware to control the dead time in the half-bridge output for improved EMI control. New firmware is also required to take advantage of this upgrade, contact IDT to obtain.

There is no change to the device ordering part number.

RELIABILITY/QUALIFICATION SUMMARY:

There is no change in die technology/process and datasheet.

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: _____

☐ *Approval for shipments prior to effective date.*

Name/Date: _____

E-Mail Address: _____

Title: _____

Phone # /Fax #: _____

CUSTOMER COMMENTS:

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____

DATE: _____



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ATTACHMENT I - PCN #: PA1510-01

PCN Type: Testing - Change in OTP Test Program

Data Sheet Change: No

Detail of Change:

This notification is to advise our customers that P9036BNTGI(8) has been upgraded to enable firmware to control the dead time in the half-bridge output for improved EMI control. New firmware is also required to take advantage of this upgrade, contact IDT to obtain.

This upgrade will be implemented during device programming at production test. Implementation to occur WW44 of 2015.

P9036B devices manufactured BEFORE date code 1544, using the OLD firmware will perform as expected.
P9036B devices manufactured AFTER date code 1544, using the OLD firmware will NOT work properly. New firmware is required for the new devices to work as intended.

P9036B devices manufactured BEFORE date code 1544, using the NEW firmware will NOT work properly. New devices are required for the new firmware to work as intended.
P9036B devices manufactured AFTER date code 1544, using the NEW firmware will work as intended.

To take maximum benefit from this improvement, the application schematic should be changed to optimally take advantage of the dead-time feature by adding a slewing capacitor on the half-bridge output. This schematic change is to be implemented with the use of the upgraded material, use with the material prior to date code 1544 is not advised.

There is no change to the device ordering part number. All new orders after PCN expiration will be filled with this upgraded material, unless arrangements are made with IDT. Please contact IDT with any questions.