

**Power Integrations**

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PRODUCT/MANUFACTURING CHANGE NOTIFICATION**Control No. PCN-08381****September 26, 2008****Type of Change:** **Design:** ☐ **Manufacturing** ☐ **Other** ☒

In accordance with Power Integrations policy of product change notification and JEDEC standard EIA/JESD-46 guidelines, we take this opportunity to serve you this notice. If you have any questions or need further assistance, please contact PI Sales office serving your geographic location.

DESCRIPTION OF THE CHANGES:

(1) Specifications of I_{CH1} and I_{CH2} parameters for TNY279 device are being changed. Please see Table 1.

(2) Power coefficient (I^2f) specification is set at T_J of 25°C for TNY274-280.

Table 1. Changes in the I_{CH1} and I_{CH2} parameters of TNY279 are shown.

Old Values

Device description	Parameter	Symbol	Min	Typ	Max
			mA		
TNY279	BP/M Pin Charge Current	I_{CH1}	-8.3	-5.4	-2.5
		I_{CH2}	-5.0	-3.5	-1.5

New Values

Device description	Parameter	Symbol	Min	Typ	Max
			mA		
TNY279	BP/M Pin Charge Current	I_{CH1}	-9.7	-6.8	-3.9
		I_{CH2}	-6.6	-4.6	-2.1

EFFECT ON PRODUCTS PREVIOUSLY SHIPPED: None.

EFFECT ON END APPLICATION: This change influences the charge current flowing from the Drain pin to BP pin of the TNY279 device only. Since the specification is an increase to the charge current, start up and recharge times of the BP pin external capacitor will be reduced. This change will therefore be an advantage in all normal applications. However, the customer may still wish to do some limited system level characterization to evaluate the impact, if any.

PART NUMBERS AFFECTED:

(1) I_{CH1} and I_{CH2} parameter limit changes are applicable to TNY279PN and TNY279GN only.

(2) I^2f specification at T_J of 25°C is applicable to TNY274PN-TNY280PN and TNY274GN-TNY280GN

REASONS FOR THE CHANGES:

(1) Existing data sheet limits of I_{CH1} and I_{CH2} had been established based on limited data set at the time of the product introduction. Since then a vast amount of production test data indicate that TNY279 is more similar to TNY280 in terms of I_{CH1} and I_{CH2} parameter distributions than those of TNY278 and smaller members of the family.

(2) ILIM and Frequency parameters were specified at T_J of 25°C in the current datasheet, but not I^2f . This is being added for clarification in the revised specification. Essentially, this is not a change.

EFFECTIVE DATE: December 26, 2008

Please note that products with the above changes may begin to be shipped after the effective date stated above without further notice.