

DESIGN/PROCESS CHANGE NOTIFICATION

This is to inform you that a change is being made to the following products.

This is a minor change that has no impact on product quality, reliability, electrical or mechanical performance. Affected products will remain fully compliant to all published specifications. Notification is being made for informational purposes only and there is no approval required. Products incorporating this change may be shipped interchangeably with existing unchanged products.

Please contact your local Customer Quality Engineer if you have any questions regarding this notification. Alternatively, you may send an email request for information to PCNSupport@fairchildsemi.com.

Implementation of change:

Expected First Shipment Date for Changed Product : Jan. 11, 2013

Expected First Date Code of Changed Product : 1301

Description of Change (From) :
Change Data sheet application space from:
Adjustable Output Voltage: 0.8 to $V_{in} \cdot 0.9$ V

Description of Change (To) :
Adjustable Output Voltage: 0.8 to 2.0V

Reason for Change:

Due to a design limitation, FAN5354 cannot maintain full control of switching duty cycle when V_{in} is equal to or below V_{out} . For this reason the allowable maximum output voltage (V_{OUT}) was adjusted to be limited below UVLO cut-off. If V_{OUT} is configured to regulate at voltage higher than UVLO fall threshold the device can be damaged during input rail cycling. The datasheet previously stated a maximum duty cycle limitation of 90%, this already limits the allowable voltage difference between V_{OUT} and V_{IN} , for further clarification the allowable V_{out} range was limited to prevent use cases where the duty cycle limitation is violated during input rail cycling. This change to the product data sheet is made to provide further clarification of the stated duty cycle limitation during the device power cycling. There is no actual change to the product and this notification has no impact on product quality, reliability, electrical or mechanical performance. Affected products will remain fully compliant to all published specifications. Notification is being made for informational purposes only and there is no approval required

Affected Product(s):

FAN5354MPX		
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