

**PROCESS CHANGE NOTICE**
 **PRODUCT CHANGE NOTICE**

**MAXIM INTEGRATED** HEREBY ISSUES NOTIFICATION OF CHANGE  
 THAT MAY AFFECT THE FOLLOWING CATEGORIES:

<input checked="" type="checkbox"/> DESIGN	<input type="checkbox"/> WAFER FAB	<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> TEST	<input checked="" type="checkbox"/> ELEC/MECH SPECS
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**AFFECTED PRODUCT:**

Ordering P/N: (See PN listing XLS in PCN ZIP file)

<p><b>CHANGE FROM:</b> Design Change from:          DRC: AQI2 (MT23Z) - MAX16126/MAX16128          DRC: AQI3 (MT23Z-1Z) - MAX16127/MAX16129</p> <p>Datasheet currently:</p> <ol style="list-style-type: none"> <li>1. Max of input supply current at 12V with SHDN=high changed from 320uA;</li> <li>2. Max of input supply current at 30V with SHDN=high changed from 380uA;</li> <li>3. Max of input supply current at 12V with S HDN=low changed from 50uA;</li> <li>4. Min of Gate output voltage high above VSRC at 3V changed from 5V to 4.25V (typo error);</li> <li>5. Min of Gate charge-pump current at 12V</li> </ol>	<p><b>CHANGE TO:</b> Design Change to:          DRC: BGX9 (MT23Z) - MAX16126/MAX16128          DRC: BGY0 (MT23Z-1Z) - MAX16127/MAX16129</p> <p>Datasheet changes are listed below:</p> <ol style="list-style-type: none"> <li>1. Max of input supply current at 12V with SHDN=high changed to 360uA;</li> <li>2. Max of input supply current at 30V with SHDN=high changed to 400uA;</li> <li>3. Max of input supply current at 12V with S HDN=low changed to 60uA;</li> <li>4. Min of Gate output voltage high above VSRC at 3V changed to 4.25V (typo error);</li> <li>5. Min of Gate charge-pump current at 12V removed (typo error).</li> </ol>
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**JUSTIFICATION:** A design error has been detected in conditions where internal device gate oscillations occur at cold temperatures (<-10C), following system resets.

Input Supply Current (In) exceeds max. limits following reset after initial power up.

A minor metal reroute in the circuit will correct the system reset problem at cold.

The datasheet changed to reflect the new performance limits and correct errors.

Please see the attached AECQ-100 reliability report for the die qualification.

**TRACEABILITY:** Maxim Integrated maintains full traceability by device marking, packaging labels and shipment documents.

Maxim Integrated's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

*Nasser Ali Chaouche*

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

**Contact your local Maxim Integrated Company Representative**

or

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