



Title of Change:	HPM10 datasheet update	
Effective date:	8 October 2018	
Contact information:	Contact your local ON Semiconductor Sales Office or <Christophe.waelchli@onsemi.com>	
Type of notification:	This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin.	
Change Category:	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other <u>datasheet change</u>	
Change Sub-Category(s): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Manufacturing Site Addition</div> <div style="width: 33%;"><input type="checkbox"/> Material Change</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Datasheet/Product Doc change</div> <div style="width: 33%;"><input type="checkbox"/> Manufacturing Site Transfer</div> <div style="width: 33%;"><input type="checkbox"/> Product specific change</div> <div style="width: 33%;"><input type="checkbox"/> Shipping/Packaging/Marking</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Manufacturing Process Change</div> <div style="width: 33%;"><input type="checkbox"/> Other: _____</div> </div>		
Sites Affected:	ON Semiconductor Sites: None	External Foundry/Subcon Sites: None
Description and Purpose: A new version of the HPM10 datasheet is made available. The new version is Rev.6. It replaces Rev.4. The changes between Rev.4 and Rev.6 are: <ul style="list-style-type: none"> - We have added a better description for the EXTCLK pin, in Table 6. PAD DESCRIPTIONS <ul style="list-style-type: none"> o Old description: <i>External clock input Also used to output oscillator clock to the system for test.</i> o New description: <i>External clock input Also used to output oscillator clock to the system for test. Should be connected to programmer in OTP Burn Mode.</i> - We have added more details for the conditions of the Power efficiency for the STEP DOWN CHARGE PUMP (DIV3) on the Table 3. ELECTRICAL SPECIFICATIONS <ul style="list-style-type: none"> o Old description: <i>Iload = 1 mA</i> o New description: <i>Iload = 1 mA (Efficiency calculation includes the HA_Current_Li_Ion)</i> 		



- We have added a new table that gives more details on the Typical Power efficiency for the STEP DOWN CHARGE PUMP (DIV3), in function of the load:

Table 4. EFFICIENCY OF THE STEP DOWN CHARGE PUMP (DIV3) VS LOAD, AT 25°C, $V_{in} = 3.6\text{ V}$

Load (mA)	Efficiency (%)
0.5	75.5
1	86
2	89.6
3	93.5
5	94.3
7	94
9	93.3

These datasheet changes are just clarifying a few points that were not clear enough.

None of the new information are impacting the performance of the end product.

List of Affected Parts:

HPM10-W29A100G



Appendix A: Changed Products

Product	Customer Part Number
HPM10-W29A100G	