Process Change Notification

Date: Tuesday, December 16, 2014
PCR Reference: 406
PCN Reference: 406-PCN90-Public

To Our Value Customer:

As always we appreciate your use of International Rectifier semiconductor products. Our commitment to customer satisfaction and continuous improvement is demonstrated by our change plans to enhance capacity, quality and reliability. This notice is to inform you of the following changes.

We would like to express our sincere appreciation for your cooperation regarding the following changes, and IR will work closely with you to support your requirements during this transition.

Type of Change Notification:

1. Alternate site for the assembly of QFN-IC Controller products
2. Additional test capacity

Description of Change:

QFN-IC Controllers- Alternate sites for assembly and test

1. Alternate site in China has been qualified for assembly
2. Alternate site in Malaysia has been qualified as test site

Bill of Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>UTAC Thailand (Current site, Turnkey)</th>
<th>Carsem China (Proposed Assembly site)</th>
<th>ASE-Malaysia (Proposed Test site)</th>
<th>Impact on Form, Fit or Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy</td>
<td>8600</td>
<td>QMI519</td>
<td>Na</td>
<td>Form</td>
</tr>
<tr>
<td>Wire</td>
<td>Au</td>
<td>Au</td>
<td>Na</td>
<td>None</td>
</tr>
</tbody>
</table>
Reason for the Change:
Additional assembly and test capacity

Effect Date:
Monday, March 16, 2015

International Rectifier will consider this change approved and will implement it by the effective date unless specific conditions of acceptance or data requests are provided in writing within 30 days of receipt of this notice. Please submit conditions of acceptance and data requests to the PCN coordinator listed at the end of this notice.

Impact of Change:
The new Bill of Materials and Assembly site will meet the same parametric, MSL and Qualification level as the existing products. Product Datasheets will remain unchanged.

Method of Identifying Changed Product:
Datecode and Lotcode information

Products Affected:

<table>
<thead>
<tr>
<th>IR Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-3043PBF</td>
<td></td>
</tr>
<tr>
<td>111-4120PBF</td>
<td></td>
</tr>
<tr>
<td>111-4122PBF</td>
<td></td>
</tr>
<tr>
<td>111-4136PBF</td>
<td></td>
</tr>
<tr>
<td>111-4138PBF</td>
<td></td>
</tr>
<tr>
<td>111-4160PBF</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-08T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-16T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-A41T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-A42T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-A62T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-I08T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-I16T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-I41T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-I42T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-I62T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-S32T</td>
<td></td>
</tr>
<tr>
<td>ASP1000C-S34T</td>
<td></td>
</tr>
<tr>
<td>Part Number</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ASP1101-AT</td>
<td></td>
</tr>
<tr>
<td>ASP1101-BT</td>
<td></td>
</tr>
<tr>
<td>ASP1101-CT</td>
<td></td>
</tr>
<tr>
<td>ASP1105-I62T</td>
<td></td>
</tr>
<tr>
<td>ASP1105-X62T</td>
<td></td>
</tr>
<tr>
<td>ASP1211-A60NT</td>
<td></td>
</tr>
<tr>
<td>ASP1211-A62NT</td>
<td></td>
</tr>
<tr>
<td>ASP1211-A80DT</td>
<td></td>
</tr>
<tr>
<td>ASP1211-A80NT</td>
<td></td>
</tr>
<tr>
<td>ASP1212-N20NT</td>
<td></td>
</tr>
<tr>
<td>ASP1212-N40NT</td>
<td></td>
</tr>
<tr>
<td>ASP1212-N60NT</td>
<td></td>
</tr>
<tr>
<td>ASP1212-N80NT</td>
<td></td>
</tr>
<tr>
<td>ASP1250-S20T</td>
<td></td>
</tr>
<tr>
<td>ASP1300-A62DT</td>
<td></td>
</tr>
<tr>
<td>ASP1300-A62NT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-00CRT</td>
<td>5 Phase, Dual output voltage, Digital PWM Controller, AMD SVI, Overclocking,</td>
</tr>
<tr>
<td></td>
<td>Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8112A-04CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-05CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-06CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-07CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-08CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8112A-09CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8225-02CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8225G-00CRT</td>
<td>5 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI,</td>
</tr>
<tr>
<td></td>
<td>Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8225G-02CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8225G-06CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8228G-00CRT</td>
<td>8 Phase, Dual output voltage, Digital PWM Controller, Graphics, Overclocking,</td>
</tr>
<tr>
<td></td>
<td>Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8228G-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8228G-02CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8228G-03CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8228G-05CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8266-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8266CRT</td>
<td>6 Phase, Single output voltage, Digital PWM Controller, Graphics,</td>
</tr>
<tr>
<td></td>
<td>Overclocking, Phase Shedding, SMBus</td>
</tr>
<tr>
<td>CHL8314-02CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8314CRT</td>
<td>4+1 Phase, Dual output voltage, Digital PWM Controller, Graphics, Overclocking,</td>
</tr>
<tr>
<td></td>
<td>Phase Shedding, I2C</td>
</tr>
<tr>
<td>CHL8318-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8318-20-01CR</td>
<td></td>
</tr>
<tr>
<td>CHL8318-20-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8318-20-04CR</td>
<td></td>
</tr>
<tr>
<td>CHL8318CRT</td>
<td>8 Phase, Single output voltage, Digital PWM Controller, VR11, Overclocking,</td>
</tr>
<tr>
<td></td>
<td>Phase Shedding, SMBus</td>
</tr>
<tr>
<td>Model</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CHL8325A-00CRT</td>
<td>5 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8325A-02CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-03CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-04CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-05CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-09CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-16CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-19CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-34CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-38CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-39CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325A-42CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8325B-00CRT</td>
<td>5 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8326-00CRT</td>
<td>6 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8326-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8326-07CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8328-00CRT</td>
<td>8 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>CHL8328-01CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8328-03CRT</td>
<td></td>
</tr>
<tr>
<td>CHL8328-04CRT</td>
<td></td>
</tr>
<tr>
<td>IR3536AMSM01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3536AMTRPBF</td>
<td>6 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>IR3536AMTPBF</td>
<td></td>
</tr>
<tr>
<td>IR3536MMT01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3536MSG01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3536MTRPBF</td>
<td>6 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>IR3538AMSM01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3538MTRPBF</td>
<td>9999V 999.000A XPHASE</td>
</tr>
<tr>
<td>IR3541MMU01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3541MSG01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3541MSG02TRP</td>
<td></td>
</tr>
<tr>
<td>IR3541MSM01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3541MSM02TRP</td>
<td></td>
</tr>
<tr>
<td>IR3541MTRPBF</td>
<td>5 Phase, Dual output voltage, Digital PWM Controller, VR12, AMD SVI, Overclocking, Phase Shedding, SMBus, I2C</td>
</tr>
<tr>
<td>IR3565BMFS01TRP</td>
<td></td>
</tr>
<tr>
<td>IR3566BMFC05TRP</td>
<td></td>
</tr>
<tr>
<td>IR3567AMGB04TRP</td>
<td></td>
</tr>
<tr>
<td>IR3567AMGB05TRP</td>
<td></td>
</tr>
<tr>
<td>IR3567AMGB07TRP</td>
<td></td>
</tr>
<tr>
<td>IR3570BMAU02TRP</td>
<td></td>
</tr>
</tbody>
</table>
Qualification:

Parts passed all the reliability testing requirements. Reliability qualification report is available upon request. Qualification standards can be found on International Rectifier’s web site at www.irf.com/product-info/reliability

Supporting Data Availability:

Contact IR for supporting data on this change.

Contact Information:

<table>
<thead>
<tr>
<th>CONTACT TYPE</th>
<th>NAME</th>
<th>PHONE</th>
<th>EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCN Coordinator</td>
<td>Mark Ogden</td>
<td></td>
<td><a href="mailto:mogden1@irf.com">mogden1@irf.com</a></td>
</tr>
<tr>
<td>Technical</td>
<td>Mario Dolores</td>
<td></td>
<td><a href="mailto:mdolore1@irf.com">mdolore1@irf.com</a></td>
</tr>
</tbody>
</table>