

PRODUCT / PROCESS CHANGE NOTIFICATION**To Be Completed By Change Initiator**

DATE: 8/23/13

REFERENCE: PO# NA

 APPROVAL NOTIFICATIONPRODUCT REFERENCE: See List Attached
(Customer Part Number / IR Part Number)TYPE OF CHANGE: MAJOR MINOR EDITORIAL PROCESS PRODUCT**DETAILED DESCRIPTION OF CHANGE:**

Hydrogen sorption material is being integrated to the underside of the package lid (inside cavity). The H2 getter material is made of Titanium-Palladium thin film metal.

**DETAILED REASON FOR CHANGE:**

International Rectifier (IR) HiRel is standardizing select product/package families with the addition of an internal H2 sorption getter. The getter is integrated in order to mitigate the effects from intrinsic Hydrogen that can reside in the Kovar elements of certain packages. IR has found cases with parametric shifts in devices and/or high moisture content that were later traced to the presence of Hydrogen in the package. It was shown that H2 could be released in the device cavity over time and combine with oxides to form moisture. The addition of the H2 getter protects the part from adverse effects caused by the presence of H2. The new system has been qualified in accordance with MIL-STD-883, TM5005, Class S level.

EFFECTIVITY DATE:

Immediate upon customer notification and ECN sign-off.

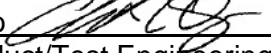
IMPACT OF CHANGE:

No changes to fit, form and function at the next stage. Form change is internal to the device.

QUALIFICATION:

IR has successfully qualified the H2 sorption getter.

Change Initiator:

Chris DiCenzo 
Manager, Product/Test Engineering

Paul Hebert 
Director, Quality Assurance

Affected Parts List:

IR2113E6	LCC18
IR2113L6	MO-036AB
IR2125Z	MO-036AA
IR2130D	MO-038AB
IR2153Z	MO-036AA
RIC7113A4	14 Lead Flat pack
RIC7113E4	LCC18
RIC7113L4	MO-036AB