

## **Process Change Notification**

**Date:** October 8, 2013  
**PCN Reference:** S20304 Rev 3  
**PCR Reference:** PCR # AP-1242-EN-0641  
**Product Reference:** Power Management Devices– SOT-223 FET

### **To Our Valued 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 change:

### **Type of Change Notification:**

Wire bond material change from Gold to Copper, for the assembly of SOT-223 FET products.

### **Description of Change:**

Current SOT-223 parts use Gold wire to provide the electrical connection between the package leads and die. The wire material will change from Gold to Copper, but the number of wires will remain the same.

As a result of this change, the Bill of Materials and part marking will change as follows:

Materials:

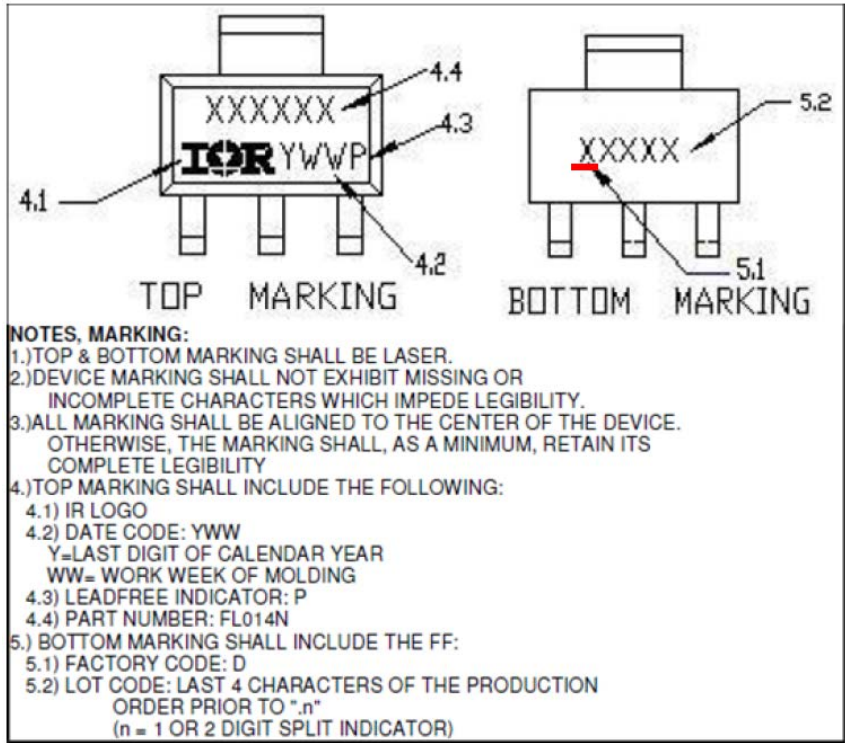
From: Au wire  
To: Cu wire

From: Sumitomo compound  
To: Halogen-free Sumitomo mold compound



**Marking:**

There will be an underscore beneath the first character on the underside of the device.



**Reason for the Change:**

Bill of Materials consolidation purposes

**Effect Date:**

January 8, 2014

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:**

No impact is expected. The new Bill of Materials will meet the same parametric and qualification level as the existing products. Product Datasheets will remain unchanged.



## **Products Affected:**

<b>Part Number</b>	<b>Description</b>
62-3023PBF	
IRFL024NPBF	MOSFET, 55V, 4A, 75 mOhm, 12.2 nC Qg, SOT-223
IRFL024NTRPBF	MOSFET, 55V, 4A, 75 mOhm, 12.2 nC Qg, SOT-223
IRFL024ZPBF	MOSFET, 55V, 5.1A, 57.5 mOhm, 9.1 nC Qg, SOT-223
IRFL024ZTRPBF	MOSFET, 55V, 5.1A, 57.5 mOhm, 9.1 nC Qg, SOT-223
IRFL4105PBF	MOSFET, 55V, 3.7A, 45 mOhm, 23 nC Qg, SOT-223
IRFL4105TRPBF	MOSFET, 55V, 3.7A, 45 mOhm, 23 nC Qg, SOT-223
IRFL4315PBF	MOSFET, 150V, 2.6A, 185 mOhm, 12 nC Qg, SOT-223
IRFL4315TRPBF	MOSFET, 150V, 2.6A, 185 mOhm, 12 nC Qg, SOT-223
IRLL014NPBF	MOSFET, 55V, 2A, 140 mOhm, 9.5 nC Qg, Logic Level, SOT-223
IRLL014NTRPBF	MOSFET, 55V, 2A, 140 mOhm, 9.5 nC Qg, Logic Level, SOT-223
IRLL024NPBF	MOSFET, 55V, 4.4A, 65 mOhm, 10.4 nC Qg, Logic Level, SOT-223
IRLL024NTRPBF	MOSFET, 55V, 4.4A, 65 mOhm, 10.4 nC Qg, Logic Level, SOT-223
IRLL024ZPBF	MOSFET, 55V, 5A, 60 mOhm, 7 nC Qg, Logic Level, SOT-223
IRLL024ZTRPBF	MOSFET, 55V, 5A, 60 mOhm, 7 nC Qg, Logic Level, SOT-223
IRLL120NPBF	
IRLL120NTRPBF	
IRLL2703PBF	MOSFET, 30V, 5.5A, 45 mOhm, 9.3 nC Qg, Logic Level, SOT-223
IRLL2703TRPBF	MOSFET, 30V, 5.5A, 45 mOhm, 9.3 nC Qg, Logic Level, SOT-223
IRLL3303PBF	MOSFET, 30V, 4.6A, 31 mOhm, 34 nC Qg, Logic Level, SOT-223
IRLL3303TRPBF	MOSFET, 30V, 4.6A, 31 mOhm, 34 nC Qg, Logic Level, SOT-223

## **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](http://www.irf.com/product-info/reliability).

## **Data Availability:**

Please contact the PCN Coordinator for supporting data.

## **Contact Information:**

<b>CONTACT TYPE</b>	<b>NAME</b>	<b>PHONE</b>	<b>EMAIL</b>
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