

## Process Change Notification

**Date:** June 11, 2013  
**PCN Reference:** M-12-0010  
**PCR Reference:** M-12-0010  
**Product Reference:** TO247 HEXFET INDUSTRIAL PRODUCTS

### 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:

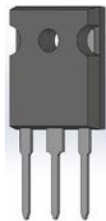
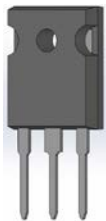
### Type of Change Notification:

Alternate Bill of Materials (BOM) for the assembly of TO247 HEXFET products.

### Description of Change:

International Rectifier has qualified an alternative leadframe and die attach material.

From : TO247 Leadframe Heat Sink Thickness of 0.079" & SnAg25Sb10 die attach material  
 To : TO247 Leadframe Heat Sink Thickness of 0.050" & PbSn2Ag2.5 die attach material

	CURRENT BOM	OPTION 1 (Thin Heatsink )
Visual Description		
Leadframe	0.079" on heatsink thickness	0.050" on heatsink thickness
Solder	65Sn/25Ag/10Sb	95.5Pb/2.5Ag/2Sn-C3



**Reason for the Change:**

Reduce copper material scrap and material consolidation purposes

**Effect Date:**

September 11, 2013

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. There will be no change to the products' datasheet. The new BOM will meet the same quality level as the current products.

**Products Affected:**

Devices	Description
64-6007PBF	N/A
64-6010PBF	N/A
IRFP044NPBF	MOSFET, 55V, 49A, 20 mOhm, 40.7 nC Qg, TO-247AC
IRFP048NPBF	MOSFET, 55V, 62A, 16 mOhm, 59.3 nC Qg, TO-247AC
IRFP054NPBF	MOSFET, 55V, 72A, 12 mOhm, 86.7 nC Qg, TO-247AC
IRFP064NPBF	MOSFET, 55V, 98A, 8 mOhm, 113.3 nC Qg, TO-247AC
IRFP1405PBF	MOSFET, 55V, 160A, 5.3 mOhm, 120 nC Qg, TO-247AC
IRFP140NPBF	MOSFET, 100V, 27A, 52 mOhm, 62.7 nC Qg, TO-247AC
IRFP150VPBF	MOSFET, 100V, 46A, 24 mOhm, 86.7 nC Qg, TO-247AC
IRFP250NPBF	MOSFET, 200V, 30A, 75 mOhm, 82 nC Qg, TO-247AC
IRFP260NPBF	MOSFET, 200V, 49A, 40 mOhm, 156 nC Qg, TO-247AC
IRFP2907PBF	MOSFET, 75V, 177A, 4.5 mOhm, 410 nC Qg, TO-247AC
IRFP2907ZPBF	MOSFET, 75V, 170A, 4.5 mOhm, 180 nC Qg, TO-247AC
IRFP3077PBF	MOSFET, 75V, 210A, 3.3 mOhm, 160 nC Qg, TO-247AC
IRFP3306PBF	MOSFET, 60V, 160A, 4.2 mOhm, 85 nC Qg, TO-247AC
IRFP3415PBF	MOSFET, 150V, 43A, 42 mOhm, 144.4 nC Qg, TO-247AC
IRFP3703PBF	MOSFET, 30V, 210A, 2.8 mOhm, 209 nC Qg, TO-247AC
IRFP3710PBF	MOSFET, 100V, 51A, 250 mOhm, 66.7 nC Qg, TO-247AC
IRFP4004PBF	MOSFET, 40V, 350A, 1.7 mOhm, 220 nC Qg, TO-247AC
IRFP4110PBF	MOSFET, 100V, 168A, 4.6 mOhm, 152 nC Qg, TO-247AC
IRFP4137PBF	MOSFET, 300V, 40A, 69 mOhm, 83 nC Qg, TO-247AC
IRFP4227PBF	MOSFET, 200V, 65A, 25 mOhm, 70 nC Qg, TO-247AC



IRFP4229PBF	MOSFET, 250V, 44A, 46 mOhm, 72 nC Qg, TO-247AC
IRFP4310ZPBF	MOSFET, 100V, 127A, 6 mOhm, 120 nC Qg, TO-247AC
IRFP4321PBF	MOSFET, 150V, 78A, 15.5 mOhm, 71 nC Qg, TO-247AC
IRFP4332-203PBF	MOSFET, 250V, 57A, 33 mOhm, 99 nC Qg, TO-247AC, leadform 203
IRFP4332PBF	MOSFET, 250V, 57A, 33 mOhm, 99 nC Qg, TO-247AC
IRFP4410ZPBF	MOSFET, 100V, 97A, 9 mOhm, 83 nC Qg, TO-247AC
IRFP4568PBF	MOSFET, 150V, 171, 5.9mOhm, 151 nC Qg, TO-247AC
IRFP4768PBF	MOSFET, 250V, 83A, 21 mOhm, 195 nC Qg, TO-247AC
IRFP4868PBF	MOSFET, 300V, 70A, 32 mOhm, 180 nC Qg, TO-247AC
IRFP90N20DPBF	MOSFET, 200V, 94A, 23 mOhm, 180 nC Qg, TO-247AC
IRFP9140NPBF	MOSFET, P-CHANNEL, -100V, -21A, 117 mOhm, 64.7 nC Qg, TO-247AC
IRLP3034PBF	MOSFET, 40V, 327A, 1.7 mOhm, 108 nC Qg, TO221

### **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:**

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