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## Information Notification

**Date:** Tuesday, June 02, 2015

**PCR Reference:** 607

**PCN Reference:** 607-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:**

DPAK & IPAK-Change of leadframe appearance

### **Description of Change:**

DPAK & IPAK-Change of leadframe appearance

DPAK, IPAK and COPAK that use Leadframe 44-0159-01 (See detailed parts list for specific part numbers affected)

**Old**



**New**



### **Reason for the Change:**

Minor leadframe tooling adjustment to further enhance process quality resulted in a minor appearance difference on back of heat sink

### **Effect Date:**

Wednesday, May 27, 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:**

No impact on electrical parameters. No impact for pick and place at board assembly expected. The change has no effect on specified form, fit, function, reliability or customer assembly process

### **Method of Identifying Changed Product:**

Visual appearance - see description

### **Products Affected:**

IR Part	Description
AUIRFR2905ZTRL	AUTMOTIVE MOSFET, 55V, 59A, 14.5 mOhm, 29 nC Qg, D-Pak
AUIRFR3504	Automotive MOSFET 40V, 30A, 9.2 mOhm, 48 nC Qg, DPAK
AUIRFR3504TRL	Automotive MOSFET 40V, 30A, 9.2 mOhm, 48 nC Qg, DPAK
AUIRFR3504Z	Automotive MOSFET, 40V 77A AUTO DPak
AUIRFR3504ZTRL	Automotive MOSFET, 40V 77A AUTO DPak
AUIRFR3607	Automotive MOSFET 75V, 80A, 9.0 mOhm, 56 nC Qg, DPak
AUIRFR3607TRL	Automotive MOSFET 75V, 80A, 9.0 mOhm, 56 nC Qg, DPak
AUIRFR3710Z	Automotive MOSFET, 100V 42.000A AUTO D-PAK
AUIRFR3710ZTRL	Automotive MOSFET, 100V 42.000A AUTO D-PAK
AUIRFR3806	Automotive Q101 60V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR3806TRL	Automotive Q101 60V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR4104	Automotive MOSFET, 40V 75.000A AUTO D-PAK
AUIRFR4104TRL	Automotive MOSFET, 40V 75.000A AUTO D-PAK
AUIRFR4105	Automotive MOSFET, 55V, 25A, 45 mOhm, 22.7 nC Qg, D-Pak
AUIRFR4105Z	Automotive MOSFET, 55V 30A AUTO DPak
AUIRFR4105ZTRL	Automotive MOSFET, 55V 30A AUTO DPak
AUIRFR4292	"Automotive Logic Level MOSFET 250V, 9.3A, 375 mOhm, 13 nC Qg, DPAK
AUIRFR4292TRL	"Automotive Logic Level MOSFET 250V, 9.3A, 375 mOhm, 13 nC Qg, DPAK
AUIRFR4615	Automotive MOSFET 150V, 33A, 42 mOhm, 26 nC Qg, DPAK
AUIRFR4615TRL	Automotive MOSFET 150V, 33A, 42 mOhm, 26 nC Qg, DPAK
AUIRFR4620	Automotive MOSFET 200V, 24A, 78 mOhm, 25 nC Qg, DPak
AUIRFR4620TRL	Automotive MOSFET 200V, 24A, 78 mOhm, 25 nC Qg, DPak
AUIRFR48Z	AUTOMOTIVE MOSFET, 55V, 62A, 11 mOhm, 40 nC Qg, D-Pak
AUIRFR48ZTRL	AUTOMOTIVE MOSFET, 55V, 62A, 11 mOhm, 40 nC Qg, D-Pak

AUIRFR5305	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR5305TR	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR5305TRL	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR540Z	"Automotive MOSFET 100V, 26 mOhm, DPAK
AUIRFR540ZTRL	"Automotive MOSFET 100V, 26 mOhm, DPAK
AUIRFR5410	Automotive Q101 -100V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR5410TRL	Automotive Q101 -100V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR5505	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR5505TRL	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR6215	Automotive MOSFET, -150V -13A AUTO DPak
AUIRFR6215TRL	Automotive MOSFET, -150V -13A AUTO DPak
AUIRFR9024N	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFR9024NTRL	Automotive Q101 -55V Single P-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRFU1010Z	Automotive MOSFET 55V,91A, 7.5 mOhm, 63 nC Qg, IPAK
AUIRFU3607	
AUIRFU4104	Automotive MOSFET, 40V 75.000A AUTO IPAK
AUIRFU4292	
AUIRFU540Z	
AUIRGR4045D	Automotive 600V Copack Trench IGBT in a DPAK package
AUIRLR014N	Automotive MOSFET Logic Level 55V, 10A, 140 mOhm, 7.9 nC Qg, DPak
AUIRLR014NTRL	Automotive MOSFET Logic Level 55V, 10A, 140 mOhm, 7.9 nC Qg, DPak
AUIRLR024N	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR024NTRL	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR024Z	Automotive MOSFET 55V 7A 58mOhm
AUIRLR024ZTRL	Automotive MOSFET 55V 7A 58mOhm
AUIRLR120N	Automotive Q101 100V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR120NTRL	Automotive Q101 100V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2703	Automotive Q101 30V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2703TRL	Automotive Q101 30V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2905	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package

AUIRLR2905TRL	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2905Z	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2905ZTRL	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR2908	Automotive Logic Level MOSFET 80V, 30A, 28 mOhm, DPAK
AUIRLR2908TRL	Automotive Logic Level MOSFET 80V, 30A, 28 mOhm, DPAK
AUIRLR3105	Automotive Logic Level MOSFET 55V, 25A, 43 mOhm, 20 nC Qg, DPAK
AUIRLR3105TRL	Automotive Logic Level MOSFET 55V, 25A, 43 mOhm, 20 nC Qg, DPAK
AUIRLR3110Z	Automotive MOSFET 100V, 63A, 16mOhm, 34nC Qg, DPak
AUIRLR3110ZTRL	Automotive MOSFET 100V, 63A, 16mOhm, 34nC Qg, DPak
AUIRLR3114Z	Automotive MOSFET 40V, Logci Level 42A, 4.5 mOhm, 40 nC Qg, DPak
AUIRLR3114ZTRL	Automotive MOSFET 40V, Logci Level 42A, 4.5 mOhm, 40 nC Qg, DPak
AUIRLR3410	Automotive MOSFET, 100V 17A AUTO DPak
AUIRLR3410TR	Automotive MOSFET, 100V 17A AUTO DPak
AUIRLR3410TRL	Automotive MOSFET, 100V 17A AUTO DPak
AUIRLR3636	Automotive MOSFET LL 60V, 99A, 8.3 mOhm, 33 nC Qg, DPak
AUIRLR3636TRL	Automotive MOSFET LL 60V, 99A, 8.3 mOhm, 33 nC Qg, DPak
AUIRLR3705Z	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR3705ZTR	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR3705ZTRL	Automotive Q101 55V Single N-Channel HEXFET Power MOSFET in a D-Pak Package
AUIRLR3915	Automotive Logic Level MOSFET 55V, 61A, 14 mOhm, 61 nC Qg, DPAK
AUIRLU024Z	
AUIRLU2905	Automotive 55V 42A D-Pak
AUIRLU3110Z	Automotive MOSFET 100V, 63A, 16mOhm, 34nC Qg, IPak
AUIRLU3114Z-701TRL	
AUXALFR4104	
AUXCKFR1018ETRR	
AUXCLFR5305	
AUXCLFR5410	
AUXCLFR6215TR	
AUXCLFR9024N	
AUXCLLR2905Z	
AUXDIFR3710ZTRL	
AUXGMFR120ZTRL	
AUXHAFR6215	
AUXHBFR4104TRL	
AUXTALR3915	
AUXTIFR12N25DTRR	

AUXTKLR3110Z	
IPS031R	
IRFR5305PBF	MOSFET, P-CHANNEL, -55V, -28A, 65 mOhm, 42 nC Qg, D-Pak
IRFR5305TRLPBF	MOSFET, P-CHANNEL, -55V, -28A, 65 mOhm, 42 nC Qg, D-Pak
IRFR5305TRRPBF	
IRFR5410PBF	MOSFET, P-CHANNEL, -100V, 13A, 205 mOhm, 38.7 nC Qg, D-Pak
IRFR5410TRLPBF	MOSFET, P-CHANNEL, -100V, 13A, 205 mOhm, 38.7 nC Qg, D-Pak
IRFR5410TRPBF	MOSFET, P-CHANNEL, -100V, 13A, 205 mOhm, 38.7 nC Qg, D-Pak
IRFR5410TRRPBF	MOSFET, P-CHANNEL, -100V, 13A, 205 mOhm, 38.7 nC Qg, D-Pak
IRFR5505PBF	MOSFET, P-CHANNEL, -55V, -18A, 110 mOhm, 21.3 nC Qg, D-Pak
IRFR5505TRLPBF	MOSFET, P-CHANNEL, -55V, -18A, 110 mOhm, 21.3 nC Qg, D-Pak
IRFR5505TRPBF	MOSFET, P-CHANNEL, -55V, -18A, 110 mOhm, 21.3 nC Qg, D-Pak
IRFR6215PBF	MOSFET, P-CHANNEL, -150V, 13A, 580 mOhm, 44 nC Qg, D-Pak
IRFR6215TRLPBF	MOSFET, P-CHANNEL, -150V, 13A, 580 mOhm, 44 nC Qg, D-Pak
IRFR6215TRPBF	MOSFET, P-CHANNEL, -150V, 13A, 580 mOhm, 44 nC Qg, D-Pak
IRFR6215TRRPBF	MOSFET, P-CHANNEL, -150V, 13A, 580 mOhm, 44 nC Qg, D-Pak
IRFR7446PBF	
IRFR7446TRPBF	
IRFR9024NCTRPBF	
IRFR9024NPBF	MOSFET, P-CHANNEL, -55V, 11A, 175 mOhm, 12.7 nC Qg, D-Pak
IRFR9024NTRLPBF	MOSFET, P-CHANNEL, -55V, 11A, 175 mOhm, 12.7 nC Qg, D-Pak
IRFR9024NTRPBF	MOSFET, P-CHANNEL, -55V, 11A, 175 mOhm, 12.7 nC Qg, D-Pak
IRFR9024NTRRPBF	MOSFET, P-CHANNEL, -55V, 11A, 175 mOhm, 12.7 nC Qg, D-Pak
IRFR9120NPBF	MOSFET, P-CHANNEL, -100V, -6.5A, 480 mOhm, 18 nC Qg, D-Pak
IRFR9120NTRLPBF	MOSFET, P-CHANNEL, -100V, -6.5A, 480 mOhm, 18 nC Qg, D-Pak
IRFR9120NTRPBF	MOSFET, P-CHANNEL, -100V, -6.5A, 480 mOhm, 18 nC Qg, D-Pak
IRFU024NPBF	MOSFET, 55V, 16A, 75 mOhm, 13.3 nC Qg, I-Pak
IRFU1018EPBF	MOSFET, 60V, 79A, 8.4 mOhm, 46 nC Qg, I-Pak
IRFU1205PBF	MOSFET, 55V, 37A, 27 mOhm, 43.3 nC Qg, I-Pak
IRFU120NPBF	MOSFET, 100V, 9.1A, 210 mOhm, 16.7 nC Qg, I-Pak
IRFU13N20DPBF	MOSFET, 200V, 14A, 235 mOhm, 25 nC Qg, I-Pak
IRFU220NPBF	MOSFET, 200V, 5A, 600 mOhm, 15 nC Qg, I-Pak
IRFU2405PBF	MOSFET, 55V, 56A, 16 mOhm, 70 nC Qg, I-Pak
IRFU3410PBF	MOSFET, 100V, 31A, 39 mOhm, 37 nC Qg, I-Pak
IRFU3607PBF	MOSFET, 75V, 80A, 9.0 mOhm, 56 nC Qg, I-Pak
IRFU3607TRL701P	
IRFU3707ZPBF	MOSFET, 30V, 56A, 9.5 mOhm, 9.6 nC Qg, I-Pak
IRFU3709ZPBF	MOSFET, 30V, 86A, 6.5 mOhm, 17 nC Qg, I-Pak
IRFU3710ZPBF	MOSFET, 100V, 56A, 18 mOhm, 69 nC Qg, I-Pak
IRFU3806PBF	MOSFET, 60V, 43A, 16.2 mOhm, 22 nC Qg, I-Pak
IRFU3910PBF	MOSFET, 100V, 15A, 115 mOhm, 29.3 nC Qg, I-Pak
IRFU4105ZPBF	MOSFET, 55V, 30A, 24.5 mOhm, 18 nC Qg, I-Pak
IRFU4510PBF	MOSFET, 100V, 63A, 13.9 mOhm, 54 nC Qg, I-Pak
IRFU4615PBF	MOSFET, 150V, 33A, 42mOhm, 26nC Qg, I-Pak
IRFU4620PBF	MOSFET, 200V, 24A, 78mOhm, 25nC Qg, I-Pak
IRFU48ZPBF	MOSFET, 55V, 62A, 11 mOhm, 40 nC Qg, I-Pak

IRFU5305PBF	MOSFET, P-CHANNEL, -55V, -28A, 65 mOhm, 42 nC Qg, I-Pak
IRFU5410PBF	MOSFET, P-CHANNEL, -100V, -13A, 205 mOhm, 38.7 nC Qg, I-Pak
IRFU5505PBF	MOSFET, P-CHANNEL, -55V, -18A, 110 mOhm, 21.3 nC Qg, I-Pak
IRFU6215PBF	MOSFET, P-CHANNEL, -150V, -13A, 580 mOhm, 44 nC Qg, I-Pak
IRFU9024NPBF	MOSFET, P-CHANNEL, -55V, -11A, 175 mOhm, 12.7 nC Qg, I-Pak
IRFU9120NPBF	MOSFET, P-CHANNEL, -100V, -6.5A, 480 mOhm, 18 nC Qg, I-Pak
IRG4RC20FTRL PBF	600V Fast 1-8 kHz Single IGBT in a D-Pak package
IRG4RC20FTRPBF	600V Fast 1-8 kHz Single IGBT in a D-Pak package
IRGR2B60KDPBF	
IRGR2B60KDTRL PBF	
IRGR3B60KD2TRLP	600V3.000ACOPAKD-PAK
IRGR3B60KD2TRP	600V3.000ACOPAKD-PAK
IRGR3B60KD2TRRP	600V3.000ACOPAKD-PAK
IRGR4045DPBF	600V, 6A, COPAK-DPAK
IRGR4045DTRL PBF	
IRGR4045DTRPBF	
IRGR4607DPBF	
IRGR4610DPBF	
IRGR4610DTRPBF	
IRLR9343PBF	MOSFET, P-CHANNEL, -55V, -20A, 105 mOhm, 31 nC Qg, Logic Level, D-Pak
IRLR9343TRL PBF	
IRLR9343TRPBF	MOSFET, P-CHANNEL, -55V, -20A, 105 mOhm, 31 nC Qg, Logic Level, D-Pak
IRLU024NPBF	MOSFET, 55V, 17A, 65 mOhm, 10 nC Qg, Logic Level, I-Pak
IRLU120NPBF	MOSFET, 100V, 11A, 185 mOhm, 13.3 nC Qg, Logic Level, I-Pak
IRLU2703PBF	MOSFET, 30V, 22A, 45 mOhm, 10 nC Qg, Logic Level, I-Pak
IRLU2905PBF	
IRLU2905ZPBF	MOSFET, 55V, 60A, 13.5 mOhm, 23 nC Qg, Logic Level, I-Pak
IRLU3103PBF	MOSFET, 30V, 46A, 19 mOhm, 33.3 nC Qg, Logic Level, I-Pak
IRLU3110ZPBF	MOSFET, 100V, 63A, 14 mOhm, 34 nC Qg, Logic Level, I-Pak
IRLU3410PBF	MOSFET, 100V, 15A, 105 mOhm, 22.7 nC Qg, Logic Level, I-Pak
IRLU3636-701TRP	
IRLU3636PBF	MOSFET, 60V, 99A, 6.8 mOhm, 33 nC Qg, Logic Level, I-Pak
IRLU3705ZPBF	MOSFET, 55V, 89A, 8 mOhm, 44 nC Qg, Logic Level, I-Pak
IRLU3802PBF	MOSFET, 12V, 84A, 8.5 mOhm, 27 nC Qg, Logic Level, I-Pak
IRLU3915PBF	MOSFET, 55V, 61A, 14 mOhm, 61 nC Qg, Logic Level, I-Pak
IRLU7843PBF	MOSFET, 30V, 161A, 3.3 mOhm, 34 nC Qg, Logic Level, I-Pak
IRLU8729-701PBF	
IRLU8743PBF	MOSFET, 30V, 160A, 3.1 mOhm, 39 nC Qg, Logic Level, I-Pak

### **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)

**Supporting Data Availability:**

Contact IR for supporting data on this change.

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