

Process Change Notification

Date: November 28, 2012
PCN Reference: S20209
PCR Reference: P-1242-MD-0642.1
Product Reference: TO-220 MOSFET

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 site for the assembly of the product listed in the following page.

Description of Change:

SP Semiconductor (Korea) has been qualified as alternate assembly site for the TO-220 FET products identified in the following page. The Bill of Materials in the new assembly site will be as follows:

- Bare Cu leadframe
- Samsung SG-8200-series mold compound
- PbSnAg die attach solder

Reason for the Change:

Additional assembly capacity

Effect Date:

February 28, 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 10 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 assembly site and bill of materials will meet the same parametric and qualification level as the existing products.

Products Affected:

Part Number	Description
64-0082PBF	MOSFET, 30V, 260A, 2.4 mOhm, 160 nC Qg, TO-220AB
94-2355PBF	MOSFET, 100V, 59A, 18 mOhm, 82 nC Qg, TO-220AB
IRF1018EPBF	MOSFET, 60 V, 79A, 8.4 MoHM, 46 Nc qG, to-220AB
IRF1104PBF	MOSFET, 40V, 100A, 9 mOhm, 62 nC Qg, TO-220AB
IRF1310NPBF	MOSFET, 100V, 42A, 36 mOhm, 73.3 nC Qg, TO-220AB
IRF1404PBF	MOSFET, 40V, 162A, 4 mOhm, 160 nC Qg, TO-220AB
IRF1405PBF	MOSFET, 55V, 133A, 5.3 mOhm, 170 nC Qg, TO-220AB
IRF1407PBF	MOSFET, 75V, 130A, 7.8 mOhm, 160 nC Qg, TO-220AB
IRF1503PBF	MOSFET, 30V, 240A, 3.3 mOhm, 130 nC Qg, TO-220AB
IRF2204PBF	MOSFET, 40V, 210A, 3.6 mOhm, 130 nC Qg, TO-220AB
IRF2805PBF	MOSFET, 55V, 175A, 4.7 mOhm, 150 nC Qg, TO-220AB
IRF2807PBF	MOSFET, 75V, 82A, 13 mOhm, 106.7 nC Qg, TO-220AB
IRF2903ZPBF	MOSFET, 30V, 260A, 2.4 mOhm, 160 nC Qg, TO-220AB
IRF3007PBF	MOSFET, 75V, 80A, 12.6 mOhm, 89 nC Qg, TO-220AB
IRF3305PBF	MOSFET, 55V, 140A, 8 mOhm, 100 nC Qg, TO-220AB
IRF3315PBF	MOSFET, 150V, 21A, 70 mOhm, 63.3 nC Qg, TO-220AB
IRF3415PBF	MOSFET, 150V, 43A, 42 mOhm, 133.3 nC Qg, TO-220AB
IRF3704ZPBF	MOSFET, 20V, 67A, 7.9 mOhm, 8.7 nC Qg, TO-220AB
IRF3707ZPBF	MOSFET, 30V, 59A, 9.5 mOhm, 9.7 nC Qg, TO-220AB
IRF3709PBF	MOSFET, 30V, 90A, 9 mOhm, 27 nC Qg, TO-220AB
IRF3709ZPBF	MOSFET, 30V, 87A, 6.3 mOhm, 17 nC Qg, TO-220AB
IRF3710PBF	MOSFET, 100V, 57A, 23 mOhm, 86.7 nC Qg, TO-220AB
IRF3710ZGPBF	MOSFET, 100V, 59A, 18 mOhm, 82 nC Qg, TO-220AB
IRF3711PBF	MOSFET, 20V, 110A, 6 mOhm, 29 nC Qg, TO-220AB
IRF3808PBF	MOSFET, 75V, 140A, 7 mOhm, 150 nC Qg, TO-220AB
IRF4104GPBF	MOSFET, 40V, 120A, 5.5 mOhm, 68 nC Qg, TO-220AB
IRF4905PBF	MOSFET, P-CHANNEL, -55V, -74A, 20 mOhm, 120 nC Qg, TO-220AB
IRF520NPBF	MOSFET, 100V, 9.7A, 200 mOhm, 16.7 nC Qg, TO-220AB
IRF5210PBF	MOSFET, P-CHANNEL, -100V, -40A, 60 mOhm, 120 nC Qg, TO-220AB
IRF5305PBF	MOSFET, P-CHANNEL, -55V, -31A, 60 mOhm, 42 nC Qg, TO-220AB
IRF540NPBF	MOSFET, 100V, 33A, 44 mOhm, 47.3 nC Qg, TO-220AB
IRF6215PBF	MOSFET, P-CHANNEL, -150V, -13A, 290 mOhm, 44 nC Qg, TO-220AB
IRF6218PBF	MOSFET, P-CHANNEL, -150V, -27A, 150 mOhm, 21 nC Qg, TO-220AB

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IRF640NPBF	MOSFET, 200V, 18A, 150 mOhm, 44.7 nC Qg, TO-220AB
IRF644NPBF	MOSFET, 250V, 46A, 46 mOhm, 72 nC Qg, TO-220AB
IRF8010PBF	MOSFET, 100V, 80A, 15 mOhm, 81 nC Qg, TO-220AB
IRF9520NPBF	MOSFET, P-CHANNEL, -100V, -6.8A, 480 mOhm, 18 nC Qg, TO-220AB
IRF9530NPBF	MOSFET, P-CHANNEL, -100V, -14A, 200 mOhm, 38.7 nC Qg, TO-220AB
IRF9540NPBF	MOSFET, P-CHANNEL, -100V, -23A, 117 mOhm, 64.7 nC Qg, TO-220AB
IRF9Z24NPBF	MOSFET, P-CHANNEL, -55V, -12A, 175 mOhm, 12.7 nC Qg, TO-220AB
IRFB23N15DPBF	MOSFET, 150V, 23A, 90 mOhm, 37 nC Qg, TO-220AB
IRFB23N20DPBF	MOSFET, 200V, 24A, 100 mOhm, 57 nC Qg, TO-220AB
IRFB31N20DPBF	MOSFET, 200V, 31A, 82 mOhm, 70 nC Qg, TO-220AB
IRFB3206GPBF	MOSFET, 60V, 210A, 3 mOhm, 120 nC Qg, TO-220AB, Halogen-free
IRFB3206PBF	MOSFET, 60V, 210A, 3 mOhm, 120 nC Qg, TO-220AB
IRFB3207ZGPBF	MOSFET, 75V, 170A, 4.1 mOhm, 120 nC Qg, TO-220AB, Halogen-free
IRFB3207ZPBF	MOSFET, 75V, 170A, 4.1 mOhm, 120 nC Qg, TO-220AB
IRFB3256PBF	MOSFET, 60V, 210A, 3.4 mOhm, 130 nC Qg, TO-220AB
IRFB3306GPBF	MOSFET, 60V, 160A, 4.2 mOhm, 85 nC Qg, TO-220AB, Halogen-free
IRFB3306PBF	MOSFET, 60V, 160A, 4.2 mOhm, 85 nC Qg, TO-220AB
IRFB3307ZGPBF	MOSFET, 75V, 120A, 5.8 mOhm, 79 nC Qg, TO-220AB, Halogen-free
IRFB3307ZPBF	MOSFET, 75V, 120A, 5.8 mOhm, 79 nC Qg, TO-220AB
IRFB33N15DPBF	MOSFET, 150V, 33A, 56 mOhm, 60 nC Qg, TO-220AB
IRFB3607GPBF	MOSFET, 75V, 80A, 9.0 mOhm, 56 nC Qg, TO-220AB, Halogen-free
IRFB3607PBF	MOSFET, 75V, 80A, 9.0 mOhm, 56 nC Qg, TO-220AB
IRFB3806PBF	MOSFET, 60V, 43A, 16.2 mOhm, 22 nC Qg, TO-220AB
IRFB4019PBF	MOSFET, 150V, 17A, 95 mOhm, 13 nC Qg, TO-220AB
IRFB4020PBF	MOSFET, 200V, 18A, 100 mOhm, 18 nC Qg, TO-220AB
IRFB41N15DPBF	MOSFET, 150V, 41A, 45 mOhm, 72 nC Qg, TO-220AB
IRFB4212PBF	MOSFET, 100V, 18A, 72.5 mOhm, 15 nC Qg, TO-220AB
IRFB4227PBF	MOSFET, 200V, 65A, 26 mOhm, 70 nC Qg, TO-220AB
IRFB4228PBF	MOSFET, 150V, 83A, 15 mOhm, 72 nC Qg, TO-220AB
IRFB4229PBF	MOSFET, 250V, 46A, 46 mOhm, 72 nC Qg, TO-220AB
IRFB4310ZGPBF	MOSFET, 100V, 127A, 6 mOhm, 120 nC Qg, TO-220AB, Halogen-free
IRFB4310ZPBF	MOSFET, 100V, 127A, 6 mOhm, 120 nC Qg, TO-220AB
IRFB4321GPBF	MOSFET, 150V, 83A, 15 mOhm, 71 nC Qg, TO-220AB, Halogen-free
IRFB4321PBF	MOSFET, 150V, 83A, 15 mOhm, 71 nC Qg, TO-220AB
IRFB4410ZGPBF	MOSFET, 100V, 97A, 9 mOhm, 83 nC Qg, TO-220AB, Halogen-free
IRFB4410ZPBF	MOSFET, 100V, 97A, 9 mOhm, 83 nC Qg, TO-220AB
IRFB4615PBF	MOSFET, 150V, 34A, 41 mOhm, 26 nC Qg, TO-220
IRFB4620PBF	MOSFET, 200V, 25A, 72.5 mOhm, 25 nC Qg, TO-220
IRFB5615PBF	Audio MOSFET, 150V, 34A, 41 mOhm, 26 nC Qg, TO-220
IRFB5620PBF	Audio MOSFET, 200V, 25A, 72.5 mOhm, 25 nC Qg, TO-220
IRFB59N10DPBF	MOSFET, 100V, 59A, 25 mOhm, 76 nC Qg, TO-220AB

IRFZ24NPBF	MOSFET, 55V, 17A, 70 mOhm, 13.3 nC Qg, TO-220AB
IRFZ44EPBF	MOSFET, 60V, 48A, 23 mOhm, 40 nC Qg, TO-220AB
IRL1004PBF	MOSFET, 40V, 130A, 6.5 mOhm, 66.7 nC Qg, Logic Level, TO-220AB
IRL1404PBF	MOSFET, 40V, 160A, 4 mOhm, 93.3 nC Qg, Logic Level, TO-220AB
IRL1404ZPBF	MOSFET, 40V, 200A, 3.1 mOhm, 75 nC Qg, Logic Level, TO-220AB
IRL2203NPBF	MOSFET, 30V, 100A, 7 mOhm, 40 nC Qg, Logic Level, TO-220AB
IRL2505PBF	MOSFET, 55V, 104A, 8 mOhm, 86.7 nC Qg, Logic Level, TO-220AB
IRL2703PBF	MOSFET, 30V, 24A, 400 mOhm, 10 nC Qg, Logic Level, TO-220AB
IRL2910PBF	MOSFET, 100V, 48A, 260 mOhm, 93.3 nC Qg, Logic Level, TO-220AB
IRL3705NPBF	MOSFET, 55V, 77A, 10 mOhm, 65.3 nC Qg, Logic Level, TO-220AB
IRL3705ZPBF	MOSFET, 55V, 86A, 8 mOhm, 40 nC Qg, Logic Level, TO-220AB
IRL3713PBF	MOSFET, 30V, 200A, 3 mOhm, 75 nC Qg, Logic Level, TO-220AB
IRL3803PBF	MOSFET, 30V, 120A, 6 mOhm, 93.3 nC Qg, Logic Level, TO-220AB
IRL3803VPBF	MOSFET, 30V, 140A, 5.5 mOhm, 50.7 nC Qg, Logic Level, TO-220AB
IRL520NPBF	MOSFET, 100V, 10A, 180 mOhm, 13.3 nC Qg, Logic Level, TO-220AB
IRL540NPBF	MOSFET, 100V, 36A, 44 mOhm, 49.3 nC Qg, Logic Level, TO-220AB
IRL7833PBF	MOSFET, 30V, 150A, 3.8 mOhm, 32 nC Qg, Logic Level, TO-220AB
IRLB3813PBF	MOSFET, 30V, 190A, 1.95 mOhm, 57 nC Qg, TO220
IRLB4132PBF	MOSFET, 30V, 190A, 1.95 mOhm, 57 nC Qg, TO220
IRLB8721PBF	MOSFET, 30V, 62A, 9 mOhm, 8 nC Qg, TO220
IRLB8743PBF	MOSFET, 30V, 78A, 3.2 mOhm, 36 nC Qg, TO220
IRLB8748PBF	MOSFET, 30V, 78A, 4.8 mOhm, 15 nC Qg, TO220
IRLZ24NPBF	MOSFET, 55V, 18A, 60 mOhm, 10 nC Qg, Logic Level, TO-220AB

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.

Data Availability:

Please contact the PCN Coordinator for supporting data.

Note: IR discourages physical product sample requests due to production/inventory costs and logistic challenges. The PCN team needs your support to ensure sample request are minimized and determine what data is required to satisfy customer inquiries to minimize sample requests. In some cases due to low volume runners if samples are required due to special circumstances, they may not be available until 1st authorized shipment of product.

International Rectifier

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