

101 North Sepulveda Boulevard, El Segundo, California, 90245, USA Telephone: +1 310 726 8000 www.irf.com

Process Change Notification

Date: Tuesday, April 14, 2015

PCR Reference: 532

PCN Reference: 532-PCN30-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:

Leadframe change for the assembly of SOIC8L-HVIC products

Description of Change:

Leadframe change for the assembly of SOIC8L-HVIC products

There was a major fire in Possehl Leadframe facility in Malacca, Malaysia last Feb 27'15. Possehl supplies IR Subcon Carsem with some of the stamped leadframe including SOIC8L 95x140 LF (Carsem PN 437392, IR PN 44-0868) and the three plating lines were destroyed. The buffer inventory in Possehl was damaged and IR/Carsem has no inventory on-hand to support the current demand.

Part of contingency plan is to use the available Etched leadframe from DCI. DCI is our Subcon - Carsem's qualified LF supplier and also qualified supplier for many IR products

Material Change

| Material | FROM | то | Impact on Form, Fit or Function |
|-----------|--|---------------------------------------|------------------------------------|
| Leadframe | Cu-spot Ag 95x140 mils, Possehl Stamped LF | Cu-spot Ag 95x140 mils, DCI Etched LF | None |

NOTE: BOM and Process Flow are unchanged with the exception of Leadframe- Additional information available on request

Reason for the Change:

To support the current demand, due to Possehl Leadframe facility disaster in Malacca, Malaysia and provide an alternaitve 2nd source lead frame supplier.

Effect Date:

Friday, May 01, 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:

There is no impact expected and the leadframe change will meet the same parametric and qualification level as the existing products. International Rectifier will consider this change effective and start shipment of product by May 1st, 2015. In case your customer has any questions or concerns please contact the PCN Coordinator or Technical contact directly.

Method of Identifying Changed Product:

Lot information

Products Affected:

| IR Part | Description |
|-------------|-------------|
| 111-4042PBF | |
| 111-4095PBF | |
| 98-0065 | |
| 98-0066 | |
| 98-0086PBF | |
| 98-0170PBF | |
| 98-0231 | |
| 98-0237PBF | |
| 98-0285PBF | |
| 98-0343 | |
| 98-0457PBF | |
| 98-0459PBF | |
| 98-0476PBF | |
| 98-0490PBF | |

| 98-0505PBF | | | |
|--|---|--|--|
| 98-0506PBF | | | |
| 98-1041PBF | | | |
| AUIR2085STR | Automotive qualified, 100V high speed self oscillating 50% duty cycle h bridge driver | | |
| IR1150ISTR | | | |
| IR1150ISTRPBF | | | |
| IR1150STRPBF | | | |
| IR11671ASPBF | SmartRectifier Control IC | | |
| IR11671ASTRPBF | SmartRectifier Control IC | | |
| IR11672ASPBF | SmartRectifier Control IC | | |
| IR11672ASTRPBF | SmartRectifier Control IC | | |
| IR1167ASTRPBF | SmartRectifier Control IC | | |
| IR1167BSTRPBF | SmartRectifier Control IC | | |
| IR11682SPBF | Dual Smartrectifier Driver IC | | |
| IR11682STRPBF | Dual Smartrectifier Driver IC | | |
| IR1168SPBF | Dual Smartrectifier Driver IC | | |
| IR1168STRPBF | Dual Smartrectifier Driver IC | | |
| IR2011SPBF | High and Low Side Driver in a 8-Lead SOIC package | | |
| IR2011STRPBF | High and Low Side Driver in a 8-Lead SOIC package | | |
| IR2085STRPBF | High Speed 100V Self Oscillating 50% Duty Cycle Half Bridge Driver i SO-8 package | | |
| IR2101SPBF | High and Low Side Driver, Noninverting Inputs in a 8-lead SOIC package | | |
| IR2101STRPBF | High and Low Side Driver, Noninverting Inputs in a 8-lead SOIC package | | |
| IR2102SPBF | High and Low Side Driver, Inverting Inputs in a 8-lead SOIC package | | |
| IR2102STRPBF | High and Low Side Driver, Inverting Inputs in a 8-lead SOIC package | | |
| IR2103SPBF | Half Bridge Driver, Separate High and Low Side Inputs, Inverting Low S Input, Fixed 520ns Deadtime in a 8-lead SOIC package | | |
| IR2103STRPBF | Half Bridge Driver, Separate High and Low Side Inputs, Inverting Low S Input, Fixed 520ns Deadtime in a 8-lead SOIC package | | |
| IR2104SPBF | Half Bridge Driver, Single Input Plus Inverting Shutdown Pin, Fixed 520 Deadtime in a 8-lead SOIC package | | |
| IR2104STRPBF | Half Bridge Driver, Single Input Plus Inverting Shutdown Pin, Fixed 520 Deadtime in a 8-lead SOIC package | | |
| IR2106SPBF | High and Low Side Driver, SoftTurn-On, Noninverting Inputs in a 8-lead SOIC package | | |
| IR2106STRPBF High and Low Side Driver, SoftTurn-On, Noninverting Inputs in SOIC package | | | |
| IR2108SPBF | Half Bridge Driver, Soft Turn On, Separate High and Low Side Input | | |
| IR2108STRPBF | Half Bridge Driver, Soft Turn-On, Separate High and Low Side Inputs, Fixed 500ns Deadtime in a 8-lead SOIC package | | |
| IR21091SPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Programmable 0.5-5us Deadtime in a 8-lead SOIC package | | |
| IR21091STRPBF | 600V .120A SOIC | | |
| IR2109SPBF Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fi 500ns Deadtime in a 8-lead SOIC package | | | |

| IR2109STRPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 500ns Deadtime in a 8-lead SOIC package | | |
|---------------|--|--|--|
| IR2111SPBF | Half Bridge Driver, Fixed 650ns Deadtime in a 8-lead SOIC package | | |
| IR2111STRPBF | Half Bridge Driver, Fixed 650ns Deadtime in a 8-lead SOIC package | | |
| IR2117SPBF | Single High Side Driver, Noninverting Input in a 8-lead SOIC package | | |
| IR2117STRPBF | Single High Side Driver, Noninverting Input in a 8-lead SOIC package | | |
| IR2118SPBF | Single High Side Driver, Inverting Input in a 8-lead SOIC package | | |
| IR2118STRPBF | Single High Side Driver, Inverting Input in a 8-lead SOIC package Single High Side Driver, Inverting Input in a 8-lead SOIC package | | |
| 3 3 1 1 3 | | | |
| IR21271SPBF | Single High Side Driver, Noninverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR21271STRPBF | Single High Side Driver, Noninverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR2127SPBF | Single High Side Driver, Noninverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR2127STRPBF | Single High Side Driver, Noninverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR2128SPBF | Single High Side Driver, Inverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR2128STRPBF | Single High Side Driver, Inverting Inputs, Current Sensing, Overcurent Detection and Shutdown Fault Output in a 8-lead SOIC package | | |
| IR21531SPBF | Half Bridge Driver, LO In Phase with RT, Programmable Oscillating Frequency, 0.6us Deadtime in a 8-lead SOIC package and different phase | | |
| IR21531STRPBF | Half Bridge Driver, LO In Phase with RT, Programmable Oscillating Frequency, 0.6us Deadtime in a 8-lead SOIC package and different phase | | |
| IR2153SPBF | Half Bridge Driver, LO In Phase with RT, Programmable Oscillating Frequency, 0.6us Deadtime in a 8-lead SOIC package and different phase | | |
| IR2153STRPBF | Half Bridge Driver LO In Phase with RT Programmable Oscillating | | |
| IR2161SPBF | Halogen Converter Control IC in a 8-lead SOIC package. Features Auto Resetting Short Circuit Protection, Auto Resetting Overload Protection, Overtemperature Protection, Phase Cut Dimmable, Adaptive Deadtime, Output Voltage Shift Compensation and Softstar | | |
| IR2161STRPBF | Halogen Converter Control IC in a 8-lead SOIC package. Features Auto | | |
| IR2172SPBF | IR2172S is not recommended for new designs. | | |
| IR2175SPBF | Linear Current Sensing IC in a 8-lead SOIC package | | |
| IR2175STRPBF | Linear Current Sensing IC in a 8-lead SOIC package | | |
| IR2181SPBF | High and Low Side Driver, SoftTurn-On, Noninverting Inputs, Separate High and Low Side Inputs in a 8-lead SOIC package | | |
| IR2181STRPBF | High and Low Side Driver, SoftTurn-On, Noninverting Inputs, Separate High and Low Side Inputs in a 8-lead SOIC package | | |
| IR2183SPBF | Half Bridge Driver, SoftTurn-On, Low Side Inverting Input, Separate High and Low Side Input, 500ns Deadtime in a 8-lead SOIC package | | |
| IR2183STRPBF | Half Bridge Driver, SoftTurn-On, Low Side Inverting Input, Separate High and Low Side Input, 500ns Deadtime in a 8-lead SOIC package | | |
| IR2184SPBF | Half Bridge Driver, SoftTurn-On, Single Input Plus Inverting Shut-Down, 500ns Deadtime in a 8-lead SOIC package | | |

| IR2184STRPBF | Half Bridge Driver, SoftTurn-On, Single Input Plus Inverting Shut-Down, 500ns Deadtime in a 8-lead SOIC package | |
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| IR2301SPBF | High and Low Side Driver, SoftTurn-On, Noninverting Inputs in a 8-lead SOIC package | |
| IR2301STRPBF | High and Low Side Driver, SoftTurn-On, Noninverting Inputs in a 8-lead SOIC package | |
| IR2302SPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 500ns Deadtime in a 8-lead SOIC package | |
| IR2302STRPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 500ns Deadtime in a 8-lead SOIC package | |
| IR2308SPBF | High Voltage and High Speed power MOSFET and IGBT Half Bridge Driver in a 8-lead SOIC package | |
| IR2308STRPBF | High Voltage and High Speed power MOSFET and IGBT Half Bridge Driver in a 8-lead SOIC package | |
| IR2520DSPBF | 600V Ballast Controller IC with Adaptive Zero-Voltage Switching, Internal Crest Factor Over-Current Protection and an Integrated Bootstrap Diode in a 8-Pin SOIC package. | |
| IR2520DSTRPBF | 600V Ballast Controller IC with Adaptive Zero-Voltage Switching, Internal Crest Factor Over-Current Protection and an Integrated Bootstrap Diode in a 8-Pin SOIC package. | |
| IR25600SPBF | | |
| IR25600STRPBF | | |
| IR25602SPBF | | |
| IR25602STRPBF | | |
| IR25603SPBF | | |
| IR25603STRPBF | | |
| IR25604SPBF | | |
| IR25604STRPBF | | |
| IR25606SPBF | | |
| IR25606STRPBF | | |
| IR4426SPBF | Dual Low Side Driver, Inverting Input in a 8-lead SOIC package | |
| IR4426STRPBF | Dual Low Side Driver, Inverting Input in a 8-lead SOIC package | |
| IR4427SPBF | Dual Low Side Driver in a 8-lead SOIC package | |
| IR4427STRPBF | Dual Low Side Driver in a 8-lead SOIC package | |
| IRS2011SPBF | High and Low Side Driver in a 8-Lead SOIC package | |
| IRS2011STRPBF | High and Low Side Driver in a 8-Lead SOIC package | |
| IRS2109SPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 540ns Deadtime in a 8-lead SOIC package | |
| IRS2109STRPBF | Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 540ns Deadtime in a 8-lead SOIC package | |
| IRS21531DSPBF | Self-Oscillating Half Bridge Driver, 1.1us Deadtime in a 8-pin SOIC package | |
| IRS21531DSTRPBF | Self-Oscillating Half Bridge Driver, 1.1us Deadtime in a 8-pin SOIC package | |
| IRS2153DSPBF | Self-Oscillating Half Bridge Driver, 1.1us Deadtime in a SO-8 package | |
| IRS2153DSTRPBF | Self-Oscillating Half Bridge Driver, 1.1us Deadtime in a SO-8 package | |
| IRS21851SPBF 600V Single High Side Driver IC with propagation delay matched or channels in a 8-Lead SOIC package | | |

| IRS21851STRPBF | PBF 600V Single High Side Driver IC with propagation delay matched output channels in a 8-Lead SOIC package | | |
|-----------------|---|--|--|
| IRS21867SPBF | High current (lout = 4A) robust HS/LS gate driver | | |
| IRS21867STRPBF | High current (lout = 4A) robust HS/LS gate driver | | |
| IRS2186SPBF | Derived from the IRS2181PBF this High and Low Side Driver in a 8-Lead SOIC package has output source/sink current capability of 4A and 4A | | |
| IRS2186STRPBF | Derived from the IRS2181PBF this High and Low Side Driver in a 8-Lead SOIC package has output source/sink current capability of 4A and 4A | | |
| IRS2500SPBF | PFC controller IC | | |
| IRS2500STRPBF | PFC controller IC | | |
| IRS2526DSPBF | Fluorescent PFC + Ballast Combo IC | | |
| IRS2530DSPBF | Ballast Control IC, 600V .500A SOIC | | |
| IRS2530DSTRPBF | Ballast Control IC, 600V .500A SOIC | | |
| IRS2538DSPBF | | | |
| IRS2538DSTRPBF | | | |
| IRS25401SPBF | Hysteretic Buck LED Driver (Improved version of the IRS2540, IRS2541) | | |
| IRS25401STRPBF | Hysteretic Buck LED Driver (Improved version of the IRS2540, IRS2541) | | |
| IRS2540SPBF | 200V Half Bridge Driver LED Buck Regulator in a 8-Pin SOIC Package | | |
| IRS2540STRPBF | 200V Half Bridge Driver LED Buck Regulator in a 8-Pin SOIC Package | | |
| IRS25411SPBF | Hysteretic Buck LED Driver (Improved version of the IRS2540, IRS2541) | | |
| IRS25411STRPBF | Hysteretic Buck LED Driver (Improved version of the IRS2540, IRS2541) | | |
| IRS2541SPBF | 600V Half Bridge Driver LED Buck Regulator in a 8-Pin SOIC Package | | |
| IRS25803DSTRPBF | | | |
| IRS2580DSPBF | Fluorescent PFC + Ballast Combo IC | | |
| IRS2580DSTRPBF | Fluorescent PFC + Ballast Combo IC | | |
| IRS27951SPBF | Resonant 1/2 Bridge Control IC | | |
| IRS27951STRPBF | Resonant 1/2 Bridge Control IC | | |
| IRS27952SPBF | Resonant 1/2 Bridge Control IC | | |
| IRS27952STRPBF | Resonant 1/2 Bridge Control IC | | |
| IRS2983SPBF | | | |
| IRS2983STRPBF | | | |

Qualification:

Parts passed MSL reliability testing requirements and the preliminary qualification report is available upon request. Qualification standards can be found on International Rectifier's web site at www.irf.com/product-info/reliability.

Supporting Data Availability:

Contact IR for supporting data on this change.

Contact Information:

| CONTACT TYPE | NAME | PHONE | EMAIL |
|-----------------|-----------------|-------|------------------|
| PCN Coordinator | Abigail Miciano | | AMICIAN1@irf.com |
| PCN Coordinator | Mark Ogden | | mogden1@irf.com |
| Technical | Mario Dolores | | mdolore1@irf.com |

International Rectifier

101 North Sepulveda Boulevard, El Segundo, California, 90245, USA Telephone: +1 310 726 8000 www.irf.com

April 13, 2015 Date:

PCR Reference:

PCN Reference: **PCN Attachment1 PCR# 532**

Product Reference: SOIC8L-HVIC Products

NOTE: BOM and Process Flow are unchanged with the exception of Leadframe

