

# International Rectifier

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## Process Change Notification

**Date:** Wednesday, June 17, 2015

**PCR Reference:** 572

**PCN Reference:** 572-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:

Additional assembly site for DPak IGBT Copak products

### Description of Change:

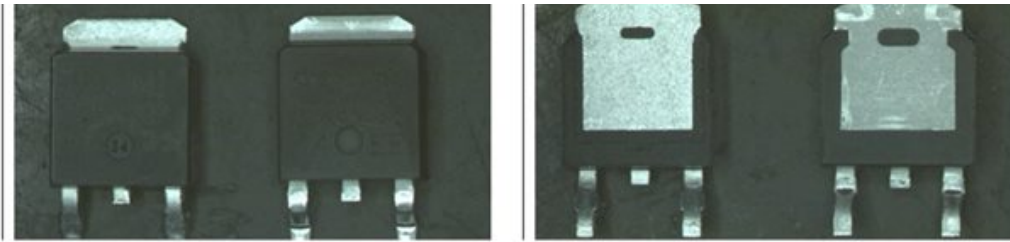
Energy Saving Products– DPak IGBT Copak

GEM Shanghai (China) will be the alternate assembly sites for the part numbers identified in the following page. As a result of this change, the package will change as follows:

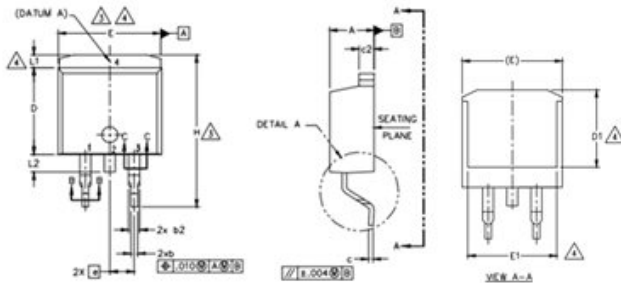
### Bill of Materials

ITEM	EXISTING	TARGET
Assembly site	International Rectifier Mexico	GEM Shanghai
Mold compound	No change	
Die attach solder	Pb/In/Ag	Pb/Sn/Ag
Leadframe	Selective Ni, dual gauge	Bare Cu, single gauge
Lead plating	No change	

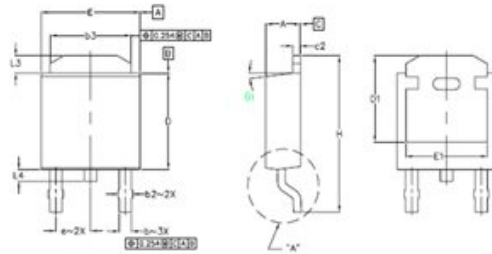
FRONT VIEW		REAR VIEW	
			



**EXISTING**



**TARGET**



**3L DPAK (TO-252) PACKAGE OUTLINE COMPARISON**

SYMBOL	SYMBOL DESCRIPTION	JEDEC		IR		GEM (Proposed site)	
		INCH		INCH		INCH	
		MIN	MAX	MIN	MAX	MIN	MAX
A	Package thickness	.086	.094	.086	.094	.087	.094
A1	Heatsink to leads coplanarity	-	.005	-	.005	-	.005
b	Leadwidth(with plating)	.025	.035	.025	.035	.025	.035
b2	Standoff width(with plating)	.030	.045	.030	.045	.030	.045
b3	Heat sink width	.195	.215	.195	.215	.205	.215
c	Lead thickness(with plating)	.018	.024	.018	.024	.018	.024
c2	Heatsink thickness	.018	.035	.018	.035	.018	.023
D	Package length	.235	.245	.235	.245	.236	.245
D1	Thermal pad length	.205	-	.205	-	.205	-
E	Package width	.250	.265	.250	.265	.252	.265
E1	Thermal pad width	.170	-	.170	-	.173	-
e	Lead pitch	.090 BSC		.090 BSC		.090 BSC	
H	Overall length	.370	.410	.370	.410	.370	.409
L	Lead length-solderable	.055	.070	.055	.070	.055	.070
L1	Total lead length	.108 REF		.108 REF		.108 REF	
L2	Reference for dim L	.020 BSC		.020 BSC		.020 BSC	
L3	Top of heat sink to mold package	.035	.050	.035	.050	.035	.050
L4	Middle Lead Length	-	.040	-	.040	.025	.040

**Reason for the Change:**

Additional assembly capacity and Bill of Materials consolidation.

**Effect Date:**

Tuesday, September 15, 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 is expected for typical applications. The new assembly site will meet the same qualification level as the existing products. Datasheet will not be modified as the result of this change in assembly site and bill of materials.

**Method of Identifying Changed Product:**

See visuals in description

**Products Affected:**

IR Part	Description
IRGR2B60KDPBF	
IRGR2B60KDTRLPBF	
IRGR4045DPBF	600V, 6A, COPAK-DPAK
IRGR4045DTRLPBF	
IRGR4045DTRPBF	
IRGR4607DPBF	
IRGR4610DPBF	
IRGR4610DTRPBF	

**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.

**Contact Information:**

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PCN Coordinator	Mark Ogden		<a href="mailto:mogden1@irf.com">mogden1@irf.com</a>
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