

IR International Rectifier

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Process Change Notification

Date: Wednesday, June 03, 2015

PCR Reference: 558

PCN Reference: 558-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:

Revision of Product technical Data Sheet

Description of Change:

Correction of Package Outline Drawing (POD) to current dimensions.

There is absolutely no BOM changes to the part list.

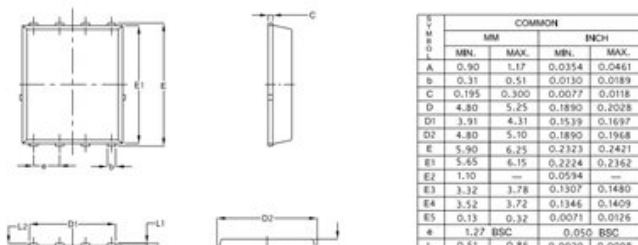
The data sheet was released with option E POD, instead it should be release with Option G.

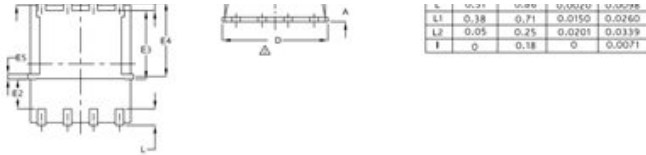
This PCN is to correct the POD in the data sheet.

Before

Current Package Outline Drawing in product datasheet (POD):

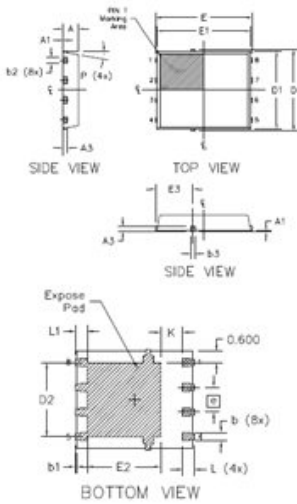
PQFN 5x6 Outline "E" Package Details





After
Revised Package Outline Drawing in product datasheet (POD):

PQFN 5x6 Outline "G" Package Details



DIM SYMBOL	MILLIMETERS		INCH	
	MIN.	MAX.	MIN.	MAX.
A	0.950	1.050	0.0374	0.0413
A1	0.000	0.050	0.0000	0.0020
A3	0.254	REF	0.0100	REF
b	0.310	0.510	0.0122	0.0201
b1	0.025	0.125	0.0010	0.0049
b2	0.210	0.410	0.0083	0.0161
b3	0.180	0.450	0.0071	0.0177
D	5.150	BSC	0.2028	BSC
D1	5.000	BSC	0.1969	BSC
D2	3.700	3.900	0.1457	0.1535
E	6.150	BSC	0.2421	BSC
E1	6.000	BSC	0.2362	BSC
E2	3.560	3.760	0.1402	0.1488
E3	2.270	2.470	0.0894	0.0972
e	1.27	REF	0.050	REF
K	0.830	1.400	0.0327	0.0551
L	0.510	0.710	0.0201	0.0280
L1	0.510	0.710	0.0201	0.0280
P	10 deg	12 deg	0 deg	12 deg

- Note:
- Dimensions and tolerancing conform to ASME Y14.5M-1994
 - Dimension L represents terminal lead back from package edge up to 0.1mm is acceptable
 - Compliance applies to the expose lead slug as well as the terminal
 - Radius on terminal is Optional

5x6mm Option E vs G Critical Dimensions Comparison										
Description	Dimension	GTBF (Option E)			ASEWH (Option G)			JEDEC MO-240C (REFERENCE)		
		MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX
Pkg Thk (Z)	A	0.900		1.170	0.950		1.050	0.900	1.050	1.200
Exces LF outside pkg perimeter (Z)	A1	0.000		0.050	0.000		0.050	0.000	N/A	0.050
LF cross section inside dimension (Z)	A3	0.195		0.300	0.254 BSC			0.230	0.280	0.330
Lead Width (X)	b	0.330		0.510	0.310		0.510	0.330	0.410	0.510
Pkg Length (X)	D	4.800		5.150	5.15 BSC			5.15 BSC		
Bottom Mold Cap Length (X)	D1	4.800		5.000	5.00 BSC			4.500	4.900	5.100
Expose pad length (X)	D2	3.700		4.310	3.700		3.900		N/A	4.220
Pkg width (Y)	E	5.900		6.150	6.15 BSC			6.15 BSC		
Bottom Mold Cap width (Y)	E1	5.650		6.000	6.00 BSC			5.500	5.800	6.100
Expose pad width (Y)	E2	3.320		3.780	3.560		3.760		N/A	4.300
Lead Pitch	e	1.27 BSC			1.27 BSC			1.27 BSC		
Lead Length	L	0.510		0.860	0.510		0.710	0.510	0.610	0.710
LF length attached to the pad dimension	L1	0.380		0.710	0.510		0.710	0.510		0.710
Pkg Body Chamfer degrees	P			12	10		12			12

Reason for the Change:

Alignment of product datasheet information to reflect the current assembly site package dimensions and footprint.

Effect Date:

Friday, July 03, 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:

This documentation change has no physical impact on the existing products. The products will continue to be manufactured in the current assembly site.

Method of Identifying Changed Product:

See outline drawing

Products Affected:

IR Part	Description
IRFH7545TRPBF	
IRFH7787TRPBF	

Qualification:

Not applicable for this change.

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	Mark Ogden		mogden1@irf.com
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