

TO-247 Alternate Lead-Frame

DESCRIPTION OF CHANGE: This notification is made to advise users of parts packaged in the TO-247 that an alternative lead frame design has been qualified for use by manufacturing. The qualification of this lead-frame results in a minor change to the A2 dimension of the POD. The list of Mosfet devices that may be affected by this change are listed below. The updated POD is also shown below for reference.

CLASSIFICATION of CHANGE: Update to documentation

REASON FOR CHANGE: Manufacturing flexibility.

EXPECTED INFLUENCE ON QUALITY/RELIABILTY/PERFORMANCE: This change will have no affect in quality, reliability, or performance of devices using this package.

PRODUCT CATAGORY: Commercial Power MOSFETs in TO-247 packages

PART NUMBERS/SERIES/FAMILIES AFFECTED: see list below

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments of products using the alternate lead frame will begin after October 11, 2012.

SAMPLE AVAILABILITY: Samples will be available for customer qualification in July, 2012.

QUALIFICATION DATA: Qualification and device performance data will be available upon completion.

PRODUCT IDENTIFICATION: There will be no changes to part marking. Products built with the alternate lead-frame will have part marking in the form of **Y27zab** where the **Y** is the factory designator for Vishay Xian.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before October 11, 2012 or as specified by contract.

ISSUED BY: Don Larson, Vishay Siliconix, Technical Marketing Manager. E-mail address: Don.larson@Vishay.com

For further information, please contact your regional Vishay office.

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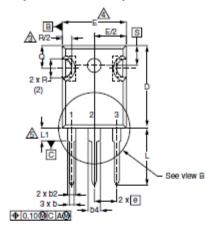


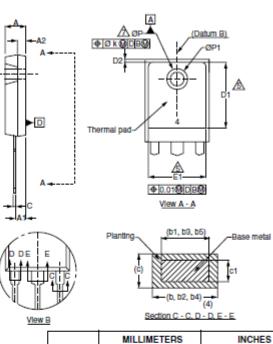
List of Active Parts Affected by Change					
IRFP048	IRFP264	IRFP460A	IRFPF50		
IRFP048PBF	IRFP264PBF	IRFP460APBF	IRFPF50PBF		
IRFP048RPBF	IRFP26N60L	IRFP460LC	IRFPG30		
IRFP054	IRFP26N60LPBF	IRFP460LCPBF	IRFPG30PBF		
IRFP054PBF	IRFP27N60K	IRFP460PBF	IRFPG40		
IRFP064	IRFP27N60KPBF	IRFP9140	IRFPG40PBF		
IRFP064PBF	IRFP31N50L	IRFP9140PBF	IRFPG50		
IRFP140	IRFP31N50LPBF	IRFP9240	IRFPG50PBF		
IRFP140PBF	IRFP32N50K	IRFP9240PBF	SIHG16N50C-E3		
IRFP150	IRFP32N50KPBF	IRFPC40	SIHG20N50C-E3		
IRFP150PBF	IRFP340	IRFPC40PBF	SIHG22N60E-E3		
IRFP17N50L	IRFP340PBF	IRFPC50	SIHG22N60S-E3		
IRFP17N50LPBF	IRFP350	IRFPC50A	SIHG24N65E-E3		
IRFP21N60L	IRFP350LC	IRFPC50APBF	SIHG30N60E-E3		
IRFP21N60LPBF	IRFP350LCPBF	IRFPC50LC	SIHG47N60E-E3		
IRFP22N50A	IRFP350PBF	IRFPC50LCPBF	SIHG47N60S-E3		
IRFP22N50APBF	IRFP360	IRFPC50PBF	94-1730		
IRFP22N60K	IRFP360LC	IRFPC60	94-2574PBF		
IRFP22N60KPBF	IRFP360LCPBF	IRFPC60LC	94-3257		
IRFP23N50L	IRFP360PBF	IRFPC60LCPBF	94-5851PBF		
IRFP23N50LPBF	IRFP440	IRFPC60PBF	SiHG47N60E-GE3		
IRFP240	IRFP440PBF	IRFPE30	SiHG22N60E-GE3		
IRFP240PBF	IRFP448	IRFPE30PBF	SiHG30N60E-GE3		
IRFP244	IRFP448PBF	IRFPE40	SiHG24N65E-GE3		
IRFP244PBF	IRFP450	IRFPE40PBF	SiHG25N40D-GE3		
IRFP250	IRFP450A	IRFPE50	SiHG17N60D-E3		
IRFP250PBF	IRFP450APBF	IRFPE50PBF	SiHG17N60D-GE3		
IRFP254	IRFP450LC	IRFPF30	IRFP460BPBF		
	IRFP450LCPBF	IRFPF30PBF	SiHG460B-GE3		
IRFP254PBF					
IRFP254PBF IRFP260	IRFP450PBF	IRFPF40			





TO-247AC (HIGH VOLTAGE)





	MILLIN	IETERS	INC	HES			MILL
DIM.	MIN.	MAX.	MIN.	MAX.	ţ	DIM.	MIN.
Α	4.65	5.31	0.183	0.209	Ī	D2	0.51
A1	2.21	2.59	0.087	0.102	Ī	E	15.29
A2	1.17	1.37	0.046	0.054	Ī	E1	13.72
b	0.99	1.40	0.039	0.055	Ī	е	5.4
b1	0.99	1.35	0.039	0.053	Ī	Øk	0
b2	1.65	2.39	0.065	0.094	İ	L	14.20
b3	1.65	2.37	0.065	0.093	Ī	L1	3.71
b4	2.59	3.43	0.102	0.135	Ī	N	7.6
b5	2.59	3.38	0.102	0.133	İ	ØP	3.56
С	0.38	0.86	0.015	0.034	İ	Ø P1	-
c1	0.38	0.76	0.015	0.030	Ī	Q	5.31
D	19.71	20.70	0.776	0.815	Ī	R	4.52
D1	13.08	-	0.515	-	İ	S	5.5
ECN: DWG:			•	•	•		•

DIM.	MIN.	MAX.	MIN.	MAX.
D2	0.51	1.30	0.020	0.051
E	15.29	15.87	0.602	0.625
E1	13.72	-	0.540	-
е	5.46 BSC		0.215 BSC	
Øk	0.254		0.010	
L	14.20	16.10	0.559	0.634
L1	3.71	4.29	0.146	0.169
N	7.62 BSC		0.300 BSC	
ØP	3.56	3.66	0.140	0.144
Ø P1	-	7.39	-	0.291
Q	5.31	5.69	0.209	0.224
R	4.52	5.49	0.178	0.216
S	5.51 BSC		0.217 BSC	
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Notes

1. Dimensioning and tolerancing per ASME Y14.5M-1994.

2. Contour of slot optional.

 Dimension D and 6 not include mold flash. Mold flash shall not exceed 0.127 mm (0.005*) per side. These dimensions are measured at the outermost extremes of the plastic body.

4. Thermal pad contour optional with dimensions D1 and E1.

5. Lead finish uncontrolled in L1.

6. Ø P to have a maximum draft angle of 1.5 to the top of the part with a maximum hole diameter of 3.91 mm (0.154*).

7. Outline conforms to JEDEC outline TO-247 with exception of dimension A2