



Product Change Notification



Product Group: Vishay Siliconix/ June14, 2012/PCN-SIL-0242012 Rev 0

Vishay Xian TO220FP Alternate Mold Compound Qualification

DESCRIPTION OF CHANGE: Vishay Siliconix announces the qualification of the alternate mold compound KTMC3097GXM for commercial High Voltage MOSFET products manufactured in TO220 –Full Pack package at Vishay's factory in Xian, China.

CLASSIFICATION OF CHANGE: Change in direct material

REASON FOR CHANGE: Alternative direct material for HVM TO220FP products as per Vishay's policy to have 2 sources from different Geographic locations for key materials.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There will be no effect on quality, reliability, or electrical performance. There will be no changes to data sheets specifications.

PRODUCT CATEGORY: Commercial High Voltage Power MOSFETs

PART NUMBERS/SERIES/FAMILIES AFFECTED: See page 2 of this PCN.

Additional High Voltage MOSFET part numbers released to production at Xian in TO220FP packages after the effective date of this PCN will be covered by this announcement.

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE: Shipments from Vishay Xian will start in September 2012.

SAMPLE AVAILABILITY: Samples will be available starting July 2012. Please contact your regional Vishay Sales office to place sample orders.

PRODUCT IDENTIFICATION: TO220FP products manufactured in Vishay Xian will have part marking in the form of Y25zab where the Y is the factory designator for Vishay Xian.

QUALIFICATION DATA: Qualification data is presented on page 3 of this PCN.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before September 12, 2012 or as specified by contract.

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Vishay Intertechnology, Inc.

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT

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Part Number List HVM TO220FP

94-3173PBF	IRFI740GLCPBF	IRFI9Z34GPBF	IRFIZ48G
94-3247	IRFI740GPBF	IRFIB5N65A	IRFIZ48GPBF
94-4017	IRFI820G	IRFIB5N65APBF	IRLI520G
94-5714PBF	IRFI820GPBF	IRFIB6N60A	IRLI520GPBF
94-5852PBF	IRFI830G	IRFIB6N60APBF	IRLI530G
IRFI510G	IRFI830GPBF	IRFIB7N50A	IRLI530GPBF
IRFI510GPBF	IRFI840G	IRFIB7N50APBF	IRLI540G
IRFI520G	IRFI840GLC	IRFIBC20G	IRLI540GPBF
IRFI520GPBF	IRFI840GLCPBF	IRFIBC20GPBF	IRLI620G
IRFI530G	IRFI840GPBF	IRFIBC30G	IRLI620GPBF
IRFI530GPBF	IRFI9520G	IRFIBC30GPBF	IRLI630G
IRFI540G	IRFI9520GPBF	IRFIBC40G	IRLI630GPBF
IRFI540GPBF	IRFI9530G	IRFIBC40GLC	IRLI640G
IRFI614G	IRFI9530GPBF	IRFIBC40GLCPBF	IRLI640GPBF
IRFI614GPBF	IRFI9540G	IRFIBC40GPBF	IRLIZ14G
IRFI620G	IRFI9540GPBF	IRFIBE20G	IRLIZ14GPBF
IRFI620GPBF	IRFI9610G	IRFIBE20GPBF	IRLIZ24G
IRFI630G	IRFI9610GPBF	IRFIBE30G	IRLIZ24GPBF
IRFI630GPBF	IRFI9620G	IRFIBE30GPBF	IRLIZ34G
IRFI634G	IRFI9620GPBF	IRFIBF20G	IRLIZ34GPBF
IRFI634GPBF	IRFI9630G	IRFIBF20GPBF	IRLIZ44G
IRFI640G	IRFI9630GPBF	IRFIBF30G	IRLIZ44GPBF
IRFI640GPBF	IRFI9634G	IRFIBF30GPBF	SIHF12N50C-E3
IRFI644G	IRFI9634GPBF	IRFIZ14G	SIHF16N50C-E3
IRFI644GPBF	IRFI9640G	IRFIZ14GPBF	SIHF22N60E-E3
IRFI720G	IRFI9640GPBF	IRFIZ24G	SIHF22N60S-E3
IRFI720GPBF	IRFI9Z14G	IRFIZ24GPBF	SIHF30N60E-E3
IRFI730G	IRFI9Z14GPBF	IRFIZ34G	SIHF8N50L-E3
IRFI730GPBF	IRFI9Z24G	IRFIZ34GPBF	SIHFIB11N50A-E3
IRFI740G	IRFI9Z24GPBF	IRFIZ44G	
IRFI740GLC	IRFI9Z34G	IRFIZ44GPBF	

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Vishay Xian KTMC3097GXM Mold Compound Qualification Test Results

Stress	Condition	Test point	S.S	Results
1 HTGB	150°C//175 °C, 100% Vgs	168 hrs 500 hrs 1000 hrs	640	0/640
2 HTRB	150°C/175 °C, 80% Vds	168 hrs 500 hrs 1000 hrs	640	0/640
3 T/C	- 65 °C to 150°C	250 cyc 500 cyc 1000 cyc	640	0/640
4 HAST	130 °C, 85%RH, 80%Vds,Vmax=42V	100 hrs	640	0/640
5 PP	+121°C, 15 PSIG	96 hrs	640	0/640
6 Power Cycle	$\Delta T_j = 100C$	4286 cyc 8572 cyc	160	0/160
7 Solderdunk	260 \pm 5 °C, 10 sec in solder	0hr(pre) 0hr(post)	160	0/160
8 MSL	RELI-0013 @260 °C	0hr(pre) 0hr(post)	22	0/22

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