



Qualification of ASE as an Additional Assembly Site of TO-220 Commercial Power Mosfets

DESCRIPTION OF CHANGE: Vishay Siliconix would like to announce the approval of Advanced Semiconductor Engineering (ASE) plant located in Weihai, China as an additional assembly facility for TO-220, MOSFET devices.

ASE Weihai has provided world-class total manufacturing services since Q1 2008, and has received international quality systems and environmental compliance certifications TS16949, ISO9001, ISO14001 and OSHAS 18001.

This facility will join the current Vishay-Siliconix qualified facilities, in providing additional capacity for MOSFETs built in the TO-220 package. The manufacturing process to be used in ASE will be similar to that used in the Xi'an facility. No electrical changes in the device are expected.

~~Additionally, there will be slight modifications to the mechanical dimensions of the TO-220 Package Outline. The updated TO-220 package outline drawing is exhibited below in this PCN.~~

Rev 1 of this PCN removes the Package Outline Drawing (POD) modification. Parts built in ASE will be in compliance to JEDEC outline drawing TO-220AB.

CLASSIFICATION OF CHANGE: Manufacturing Expansion

REASON FOR CHANGE: Increased capacity, additional source.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: None

PRODUCT CATEGORY: MOSFET

PART NUMBERS/SERIES/FAMILIES AFFECTED: Refer to list of active part numbers included with this PCN

VISHAY BRAND(s): Vishay-Siliconix

TIME SCHEDULE: Shipment of production volumes will begin August 23, 2014.

SAMPLE AVAILABILITY: Please refer to the list below for the parts that will be built for sampling to customers. Please contact your regional Vishay Sales office for sample ordering.

PRODUCT IDENTIFICATION: TO-220 products manufactured in ASE will have part marking in the form of **N46K** where the **N** is the factory designator for ASE.

QUALIFICATION DATA: Please contact your local sales office for a copy of the qualification report.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before August 23, 2014 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.

The Americas
Vishay Americas
2201 Laurelwood Road
Santa Clara, Ca 95054
T: 408-988-8000
F: 408-567-8500

Europe
Vishay Electronic GmbH
Dr.-Felix-Zandman-Platz 1
D-95100
Selb, Germany
T: 49-9287-71 -0
F: 49-9287-70435

Asia
Vishay Intertechnology Asia Pte. Ltd
37A Tampines Street 92
#07-00 Keppel Building
Singapore 528886
T: 65-6788-6668
F: 65-6788-0988

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com



Product Change Notification



Product Group: Vishay Siliconix/May 23, 2014/PCN-SIL-0102014 Rev 1

Affected Parts

| Part Number |
|-------------|-------------|-------------|-------------|----------------|
| IRF510PBF | IRF730PBF | IRF9630PBF | IRFZ10PBF | IRLZ34PBF |
| IRF520PBF | IRF740BPBF | IRF9Z10PBF | IRFZ14PBF | SIHP10N40D-E3 |
| IRF530PBF | IRF820APBF | IRF9Z14PBF | IRFZ20PBF | SIHP10N40D-GE3 |
| IRF610PBF | IRF820PBF | IRF9Z20PBF | IRFZ24PBF | SIHP5N50D-E3 |
| IRF614PBF | IRF830APBF | IRF9Z24PBF | IRFZ30PBF | SIHP5N50D-GE3 |
| IRF620PBF | IRF830BPBF | IRF9Z30PBF | IRFZ34PBF | SIHP6N40D-E3 |
| IRF624PBF | IRF830PBF | IRF9Z34PBF | IRL510PBF | SIHP6N40D-GE3 |
| IRF630PBF | IRF840BPBF | IRFBC20PBF | IRL520PBF | SIHP8N50D-E3 |
| IRF634PBF | IRF9510PBF | IRFBC30APBF | IRL530PBF | SIHP8N50D-GE3 |
| IRF710PBF | IRF9520PBF | IRFBC30PBF | IRL620PBF | |
| IRF720PBF | IRF9530PBF | IRFBE20PBF | IRL630PBF | |
| IRF730APBF | IRF9610PBF | IRFBF20PBF | IRLZ14PBF | |
| IRF730BPBF | IRF9620PBF | IRFBG20PBF | IRLZ24PBF | |

Samples

The following parts are planned to be built for sampling:

Part Number		
IRF510PBF	IRF730PBF	IRF840BPBF
IRF520PBF	IRF740BPBF	IRF9630PBF
IRF530PBF	IRF820PBF	IRFBC20PBF
IRF610PBF	IRF830PBF	IRFBG20PBF

Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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



Product Change Notification



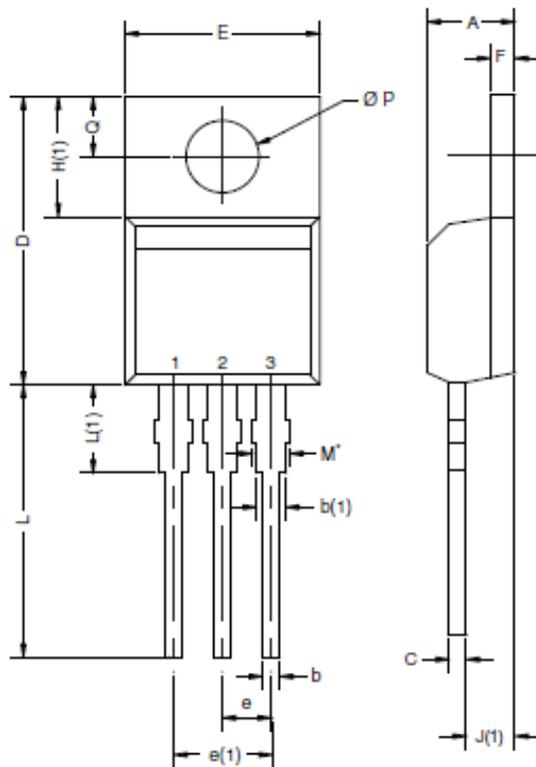
Product Group: Vishay Siliconix/May 23, 2014/PCN-SIL-0102014 Rev 1

Outline Drawing

DIM (inches)	JEDEC		Current		Revised (Updates in BOLD)		Change
	Min.	Max.	Min.	Max.	Min.	Max.	
A	0.140	0.190	0.167	0.183	0.163	0.185	-0.004/+0.002
b	0.015	0.040	0.027	0.040	0.027	0.040	None
b(1)	0.045	0.070	0.047	0.068	0.045	0.068	-0.02
c	0.014	0.024	0.014	0.024	0.014	0.024	None
D	0.560	0.650	0.585	0.610	0.564	0.624	-0.021/+0.014
E	0.380	0.420	0.395	0.414	0.392	0.414	-0.003
e	0.100 BSC		0.095	0.105	0.095	0.105	None
e(1)	0.200 BSC		0.192	0.208	0.192	0.208	None
F	0.020	0.055	0.045	0.055	0.017 0.020	0.055	-0.028
H(1)	0.230	0.270	0.240	0.255	0.240	0.264	+0.009
J(1)	0.080	0.115	0.095	0.115	0.095	0.115	None
L	0.500	0.580	0.526	0.552	0.526	0.567	+0.015
L(1)		0.250	0.131	0.150	0.131	0.159	+0.009
∅ P	0.139	0.161	0.139	0.155	0.139	0.155	None
Q	0.100	0.116	0.102	0.118	0.100	0.118	-0.002
*M	None		0.052	0.064	0.052	0.064	None

Notes:

- M = 0.052 to 0.064 inches (dimension including protrusion) Heatsink hole for HVM.
- ~~Outline conforms to JEDEC outline TO-220 AB with exception of dimension F.~~



Vishay Intertechnology, Inc.

Corporate Headquarters 63 Lincoln Highway, Malvern, PA 19355-2143 U.S.A. Phone (610) 644-1300 Fax (610) 296-0657 www.vishay.com

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