



Product Change Notification



Product Group: SIL/Sun Feb 20, 2022/PCN-SIL-029-2021-REV-1

Vishay Siliconix Announces the Qualification of Single Gauge Lead-Frame for Commercial High Voltage MOSFETs Built in DPAK Package

DESCRIPTION OF CHANGE: This notification is made to advise that below mentioned parts packaged in the DPAK built in ASE Weihai factory has been qualified Single Gauge (SG) lead-frame for manufacturing with die size up to 148milX118mils.

This conversion is because Copper Foil supplier, Hitachi Metal, has decided to halt supplies of Copper Foil DPAK Dual Gauge (DG) strategically, which affects down-stream lead-frame stamping house ability to supply DG lead-frame to assembly house ASE Weihai.

The qualification of SG lead-frame results no change to any dimension of the POD. The SG lead-frame design has been qualified for Vishay Siliconix DPAK manufacturing at ASE Weihai since 2014.

REASON FOR CHANGE: Material supply obsolescence and conversion

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: There will be no affect on the quality, reliability, or performance.

There will be no changes in minimum and maximum values on the datasheet. The finished good appearance and outline dimension remain no change.

PART NUMBERS/SERIES/FAMILIES AFFECTED: Please see materials list on the succeeding page.

VISHAY BRAND(s): Vishay Siliconix

TIME SCHEDULE:

Start Shipment Date: Wed Jun 1, 2022

SAMPLE AVAILABILITY: Please contact your regional Vishay Sales office for sample availability

PRODUCT IDENTIFICATION: There will be no changes to part marking. Products built with single gauge lead-frame will have part marking in the form of N24K where 4 is manufactured during ww19 to 24

QUALIFICATION DATA: Qualification results are available upon request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Fri May 20, 2022 or as specified by contract.

ISSUED BY: Michael Hsieh, Michael.Hsieh@vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

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



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Americas

Vishay Siliconix
2585 Junction Avenue
San Jose CA United States 95134
Phone: +1-408-988-8000
Fax: +1-408-567-8942

Europe

Vishay Electronic GmbH
Dr.-Felix-Zandman-Platz 1
Selb Germany D-95100
Phone: +49-9287-710
Fax: +49-9287-70435

Asia

Vishay Intertechnology Asia Pte. Ltd
25 Tampines Street 92
#02-00 Keppel Building
Singapore Singapore 528877
Phone: +65-6788-6668
Fax: +65-6788-0988

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IRFR430APBF	IRFR430ATRPBF	IRFR430ATRLPBF	SIHFR430A-GE3	SIHFR430ATR-GE3
SIHFR430ATRL-GE3	SIHFR430ATRR-GE3			

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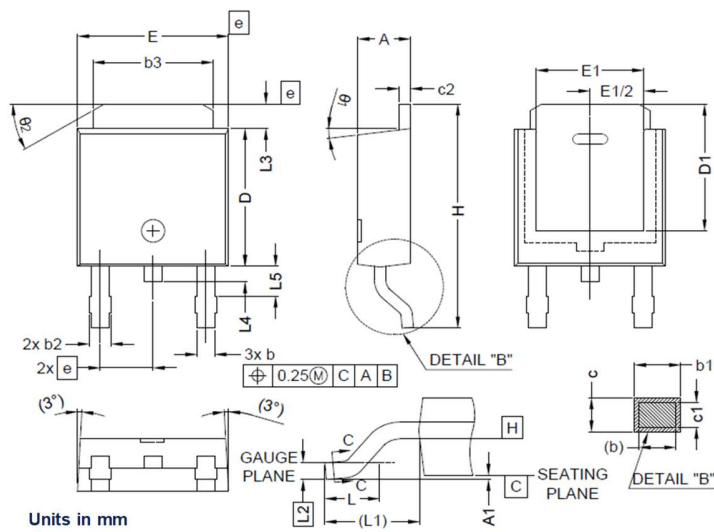
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PCN-SIL-029-2021-Rev-1 Additional Affected Parts List:

IRFR430APBF	IRFR430ATRPBF	IRFR430ATRLPBF	SIHFR430A-GE3
SIHFR430ATR-GE3	SIHFR430ATRL-GE3	SIHFR430ATRR-GE3	

DPAK Single Gauge vs. Dual Gauge POD Comparison

Symbol	Single Gauge		Dual Gauge	
	Min	Max	Min	Max
A	2.18	2.39	2.18	2.39
A1	—	0.13	—	0.13
b	0.64	0.884	0.64	0.884
b1	0.65	0.79	0.65	0.79
b2	0.76	1.124	0.76	1.124
b3	4.95	5.46	4.95	5.46
c	0.46	0.61	0.46	0.61
c1	0.41	0.56	0.41	0.56
c2	0.4	0.6	0.4	0.6
D	5.97	6.22	5.97	6.22
D1	5.21	—	5.21	—
E	6.35	6.73	6.35	6.73
E1	4.32	—	4.32	—
e	2.29BSC		2.29BSC	
H	9.94	10.34	9.94	10.34
L	1.5	1.78	1.5	1.78
L1	2.74REF		2.74REF	
L2	0.51BSC		0.51BSC	
L3	0.89	1.27	0.89	1.27
L4	—	1.02	—	1.02
L5	1.14	1.492	1.14	1.492
∅	0°	10°	0°	10°
∅1	0°	15°	0°	15°
∅2	25°	35°	25°	35°



DPAK Single Gauge vs. Dual Gauge Appearance

LF Type	Frontside Picture	Backside Picture
Single Gauge		
Dual Gauge		

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