



Product Change Notification



Product Group: SIL/Tue Aug 10, 2021/PCN-SIL-029-2021-REV-0

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.

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: Tue Nov 9, 2021

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 N19K where 9 is manufactured during ww49 to 53

QUALIFICATION DATA: Qualification results are available upon request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Tue Nov 9, 2021 or as specified by contract.

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For further information, please contact your regional Vishay office.

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



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IRFR420APBF	IRFR420ATRLPBF	IRFR420ATRPBF	IRFR9010PBF	IRFR9010TRLPBF
IRFR9010TRPBF	IRFR9214PBF	IRFR9214TRLPBF	IRFR9214TRPBF	IRFR9310PBF
IRFR9310TRLPBF	IRFR9310TRPBF	SIHFR420A-GE3	SIHFR420ATR-GE3	SIHFR9214-GE3
SIHFR9214TR-GE3	SIHFR9310TR-GE3			

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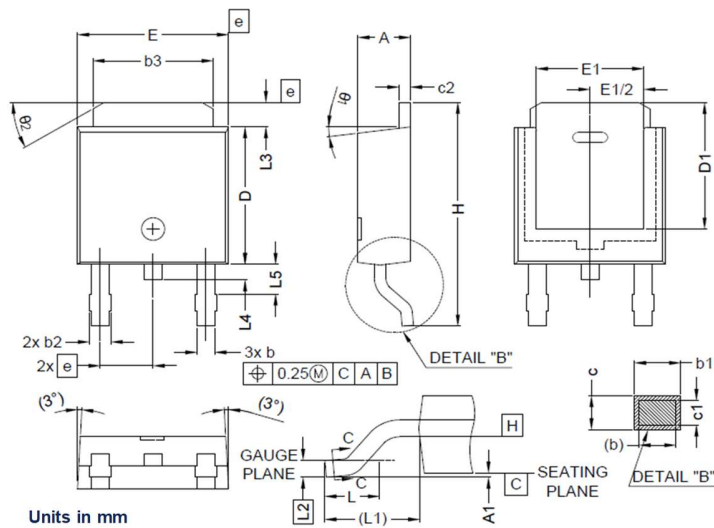
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PCN-SIL-029-2021 Affected Parts List:

IRFR420APBF	IRFR9010TRPBF	IRFR9310TRLPBF	SIHFR9214TR-GE3
IRFR420ATRLPBF	IRFR9214PBF	IRFR9310TRPBF	SIHFR9310TR-GE3
IRFR420ATRPBF	IRFR9214TRLPBF	SIHFR420A-GE3	
IRFR9010PBF	IRFR9214TRPBF	SIHFR420ATR-GE3	
IRFR9010TRLPBF	IRFR9310PBF	SIHFR9214-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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