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8755 W. Higgins Road  
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Chicago, IL 60631

[www.littelfuse.com](http://www.littelfuse.com)

## Product Change Notice (PCN)

Wednesday, December 14, 2022

### LFPCN0011222

#### Product Change Notification for Littelfuse IXLF19N250A

To our valued customers and partners,

Littelfuse would like to notify you about the transfer of the backend manufacturing of our part IXLF19N250A (2500V/32A IGBT in ISOPLUS i4™) to our new inhouse assembly factory in Lipa, Philippines.

This brand-new assembly factory will fulfill our strategy to invest in state-of-the-art power semiconductor assembly capabilities and improve our service levels to customers.

#### Summary of the changes associated to the transfer of assembly location:

- Form, fit, function changes: None
- Part number changes: None
- Effective date: Week 7, 2023 (week starting Feb. 13<sup>th</sup>, 2023)
- Replacement products: N/A
- Last time buy: N/A
  
- Backend Assembly Bill of Materials: No change
- Backend Assembly Process Flow: No change
- Backend Assembly Equipment: Equal or better
- Marking & Labeling: Yes. Changes pls refer to the details from page 2 onwards.

Furthermore:

- MDS/ICP reports are available on request.
- Samples are available on request.

Please contact your Regional Sales representative or Field Application Engineer for any inquiry or further details.

Best Regards,  
Francois Perraud  
Product Marketing Manager, SiC and multichip discrete  
Littelfuse, Inc.  
[FPerraud@Littelfuse.com](mailto:FPerraud@Littelfuse.com)



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### WHAT IS CHANGING?

<input type="checkbox"/> Obsolescence/discontinuance	<input checked="" type="checkbox"/> Manufacturing site
<input type="checkbox"/> Technology	<input type="checkbox"/> Testing/qualification
<input type="checkbox"/> Material: molding compound	<input type="checkbox"/> Datasheet
<input type="checkbox"/> Process	<input checked="" type="checkbox"/> Other: labeling

### SCHEDULES

TERMINATED REVISION – SUNSET SCHEDULE	
▪ Last time buy	N/A – new orders will be processed by the new backend site
▪ Last delivery	(Out of factory) calendar week 52, 2022
NEW REVISION – ORDERABILITY AND DELIVERABLES	
▪ Orderability	Now
▪ Datasheet	Now (no change from previous revision)
▪ Samples	Available now
▪ Start of deliveries	Week 7, 2023

### AFFECTED PART NUMBER

AFFECTED PNs	NEW PN
IXLF19N250A	No change



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### MANUFACTURING SITE

	CURRENT	NEW
Backend change	Csp-Componentes Semicondutores De Portugal, Lda. (Almada - PT)	Littelfuse (Lipa City - PHL)

#### Littelfuse Phils, Inc. Lipa, Philippines



- Established since November 1997
- New Building 3 be opened in March 2020
- A two stories building (EBU & SBU)
- Total production space ~8400 m<sup>2</sup>
- 3400 m<sup>2</sup> used in phase 1
- Dedicated to semiconductor products



Saw, Die Bond, Wirebond, & Assy Line



Mold, Oven, Dieattach & Pickng



Tester & Handler





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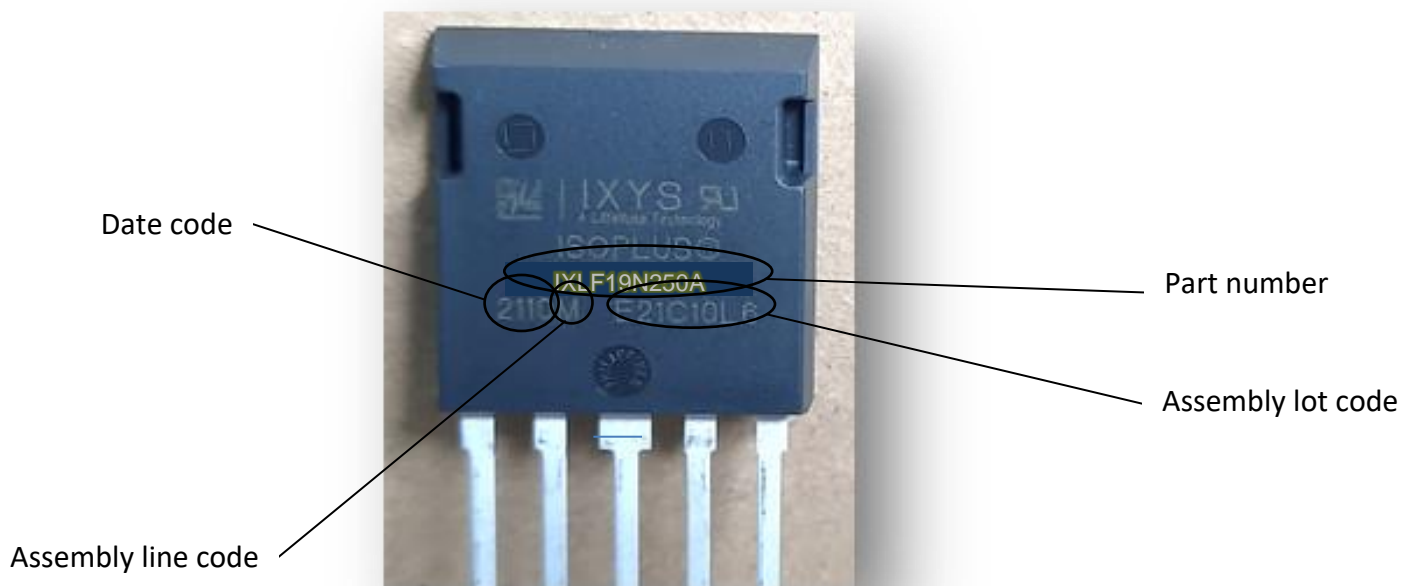
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### NEW PART MARKING

DESCRIPTION	EXISTING LOCATION	SBU-LIPA
<b>Unit Marking</b>		
Logo		
UL Sign	Yes	Yes
Trademark Sign	Yes	Yes
Product Name	Yes	Yes
Date Code	YYWW	YYWW
Assembly Line Code	G	M



*Littelfuse Lipa part marking example*



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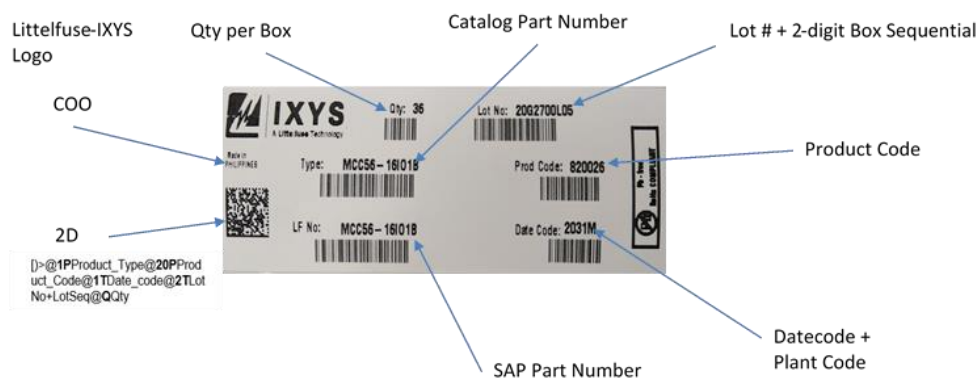
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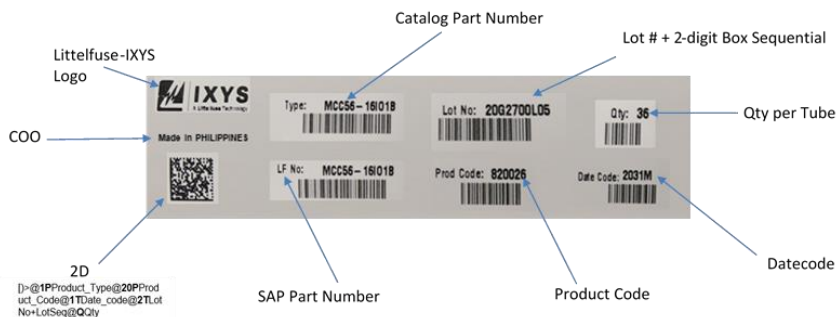
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### NEW SHIPPING LABELS

#### Box label



#### Tube label



#### RoHS label





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### QUALIFICATION REPORT SUMMARY

Summary of qualification test results obtained with the qualification lots of the IXLF19N250A built in Lipa.

DEVICE	REL-TEST	CONDITIONS	SAMPLE SIZE PER LOT, pc	Lot E22D16D4	Lot E22D16D6	Lot ENG002664	RESULT
IXLF19N250A	HTGB	1000h, 125°C, 16 VDC	20	Passed	Passed	Passed	Completed; Passed Reliability
	T/C	200 cycles, -55°C/150°C	20	Passed	Passed	Passed	Completed; Passed Reliability
	P/C	4000 cycles, IL = 19A, P~63,6W, T <sub>J</sub> = 125°C, dT = 80°C	20	Passed	Passed	Passed	Completed; Passed Reliability

Based on the above qualification results, and considering that the part's BOM, material suppliers, and process steps in Lipa are the same as in CSP-Almada, Littelfuse judged that Lipa's assembly location passes the release criterion and is ready to start the mass production of the affected product.