Littelfuse
Expertise Applied | Answers Delivered

8755 W. Higgins Road
Suite 500
Chicago, IL 60631

www.littelfuse.com

Product Change Notice (PCN)

Wednesday, September 14, 2022

LFPCN0010922

Product Change Notification for Littelfuse FMD40-06KC

To our valued customers and partners,

Littelfuse would like to notify you about the transfer of the backend manufacturing of our part FMD40-06KC (600V/38A boost leg 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 40, 2022 (week starting Oct. 2nd 2022)
- 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:

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

Please contact your Regional Sales representative of 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

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DETAILS

WHAT IS CHANGING?

☐ **Obsolescence/discontinuance**	☒ **Manufacturing site**
☐ **Technology**	☐ **Testing/qualification**
☐ **Material: molding compound**	☐ **Datasheet**
☐ **Process**	☒ **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 39, 2022
NEW REVISION – ORDERABILITY AND DELIVERABLES	
▪ **Orderability**	Now
▪ **Datasheet**	Now (no change from previous revision)
▪ **Samples**	Available now
▪ **Start of deliveries**	Week 40, 2022

AFFECTED PART NUMBER

AFFECTED PNs	NEW PN
FMD40-06KC	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^2
- 3400 m^2 used in phase 1
- Dedicated to semiconductor products


Saw, Die Bond, Wirebond, & Assy Line


Mold, Oven,Deflash & Plating


Tester & Handler

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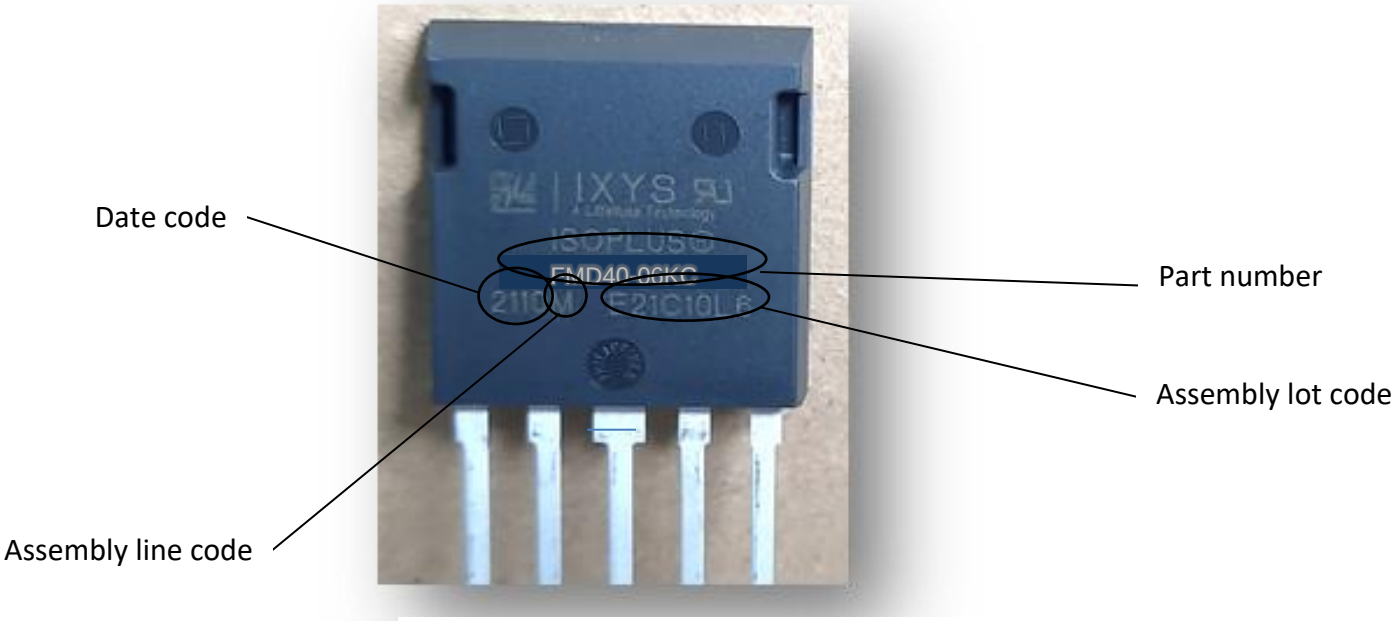
NEW PART MARKING

DESCRIPTION	EXISTING LOCATION	SBU-LIPA
Unit Marking		
Logo	IXYS	IXYS
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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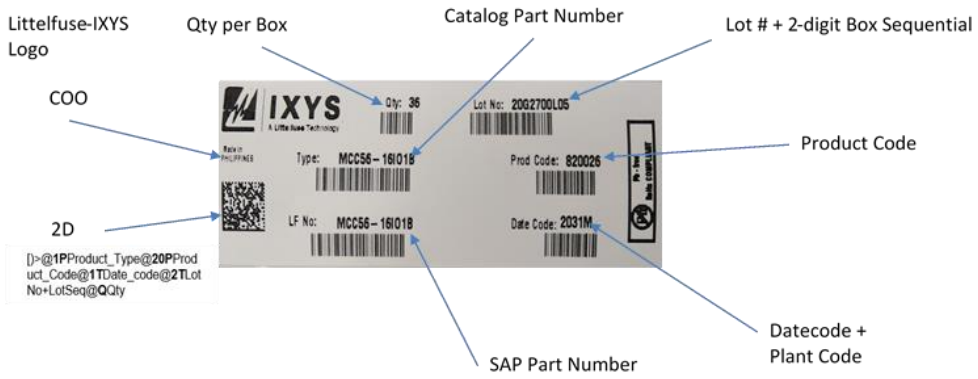
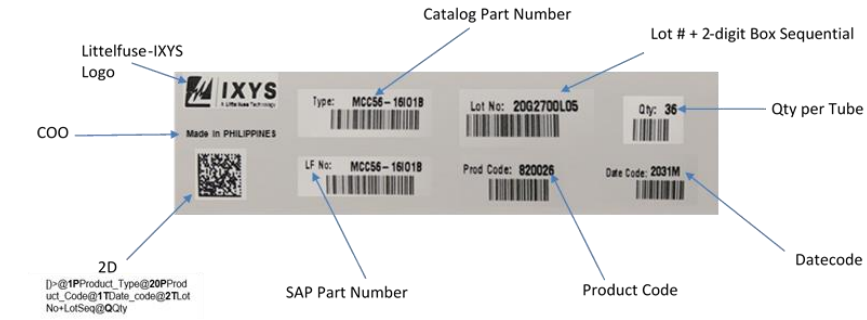
NEW SHIPPING LABELS

Box label



Tube label



RoHS label

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QUALIFICATION REPORT SUMMARY

The FMD40-06KC has been qualified by similarity with the FMD15-06KC5 (600V/18A boost leg in ISOPLUS i4™), whose summary of qualification test results is provided below.

DEVICE	REL - TEST	CONDITIONS	SAMPLE SIZE PER LOT, pc	E21C10L4	E21C10L5	E21C10L6	RESULT
FMD15-06KC5	HTRB	1000hrs, 125°C, 120V AC	20	passed	passed	passed	Completed; Passed reliability
	HTGB	1000hrs, 150°C	20	passed	passed	passed	Completed; Passed reliability
	H3TRB	1000h, 85°C, 85% r.H., ≤100V DC	20	passed	passed	passed	Completed; Passed reliability
	AUTOCLAVE	96h, 121°C/100%r.H.	20	passed	passed	passed	Completed; Passed reliability
	T/C	100 cycles, -40/+150°C	20	passed	passed	passed	Completed; Passed reliability
	P/C	4000 cycles; delta Tj=80K	20	passed	passed	passed	Completed; Passed reliability
	ITSM	Datasheet	3	passed	passed	passed	Completed; Passed reliability

Based on the above qualification test results, Littelfuse/IXYS judged that SBU Lipa Assembly Location passes the release criterion and is ready to start the mass production of the affected product.