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Feb 22, 2024

LFPCN-DM-BTA-2024-001/01

Product Change Notification for Littelfuse: Discrete MOSFETs - Active Components

To whom it may concern,

Littelfuse would like to notify you of a change in the backend manufacturing of the discrete MOSFET parts listed in appendix C to Littelfuse's inhouse assembly unit SBU-Lipa.

DESCRIPTION OF CHANGE:

1. Change in assembly house: SBU-Lipa as a new supplier and second source for TO-268-3 package.
Addition of in-house SBU-Lipa assembly house as a new supplier and a second source for TO-268-3 package shall ease out the capacity constraint with the existing OSAT and shall result in additional capacity. This shall help Littelfuse to support upcoming customer demands more effectively and efficiently.
2. Change in device marking: Details under **APPENDIX A**.
3. Change in inner box and tube label: Details under **APPENDIX A**.

Reliability data summary can be found under **APPENDIX B**.

Affected part number list can be found under **APPENDIX C**.

Form, fit, function changes: Littelfuse does not anticipate any change in form/fit/function of the affected part number/s.

Further changes, if any, shall be conveyed in a timely manner.

- Please acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information.
- Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days from the date of this PCN. Lack of any additional response within 30 days of PCN issuance further constitutes acceptance of change.

Your prompt reply will help Littelfuse to assure a smooth and well executed transition.

Your attention and response to this matter is greatly appreciated.



If you have any additional questions or concerns, please contact me or your Regional Sales Manager.

Best Regards,

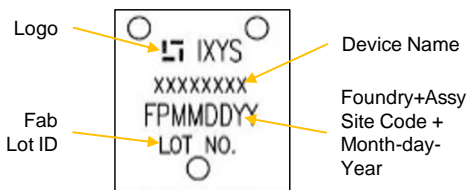
Sachin Shridhar Paradkar
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APPENDIX A: Comparison and Change Description

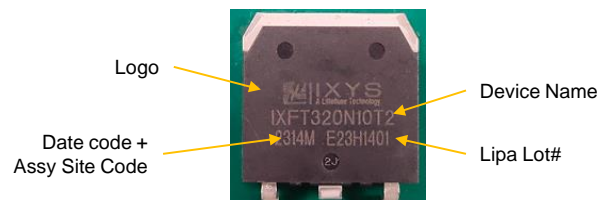
1. Comparison: Device Marking

Item	Existing OSAT	SBU-Lipa	Change (Y/N)	Risk	Remarks
Logo			Y	Low	Change to Littelfuse Logo
Part name	Device Name	Device Name	N	NR	No change
Date Code	FPMDDYY	YYWW+M	Y	Low	Lipa uses Global format + site location code
Lot #	Fab lot ID	Lipa Lot #	Y	Low	Lipa uses Global format
Assembly Line Code	P	M	Y	Low	Site location code





Existing OSAT Marking Format


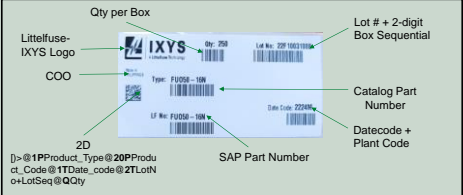

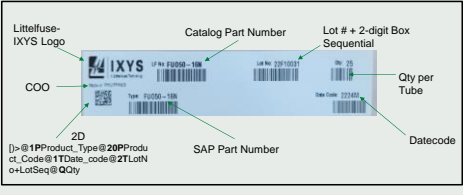


Lipa Marking Format



2. Comparison: Inner Box and Tube

Item	Existing OSAT	SBU-Lipa	Change (Y/N)	Risk	Remarks
ROHS Label			Y	Low	Both have printed RoHs compliance label
Logo			N	No Risk	No Change
Qty per Box	Yes	Yes	N	No Risk	No change
Part Number	Yes	Yes	N	No Risk	No change
Lot No	Fab Lot ID	Lipa Lot ID format	Y	LOW	SBU-Lipa uses global format
COO	Yes	Yes	N	No Risk	No change
Code Type	Barcode	Barcode + 2D Code	Y	LOW	Additional scanning code to access information
Date Code	No	Yes	Y	No Risk	SBU-Lipa uses global format + Assy Site Code

Change Description	Existing OSAT	SBU-Lipa
Inner Box Label	 <p>Labels with callouts: Catalog Part Number, FAB Lot ID, Littelfuse-IXYS Logo, PART NO: IXFB44N100P, QUANTITY: 19, LOT NO: 9AKT2902F, DATE: 10/05/19, ASSEMBLED IN PHILIPPINES, COO.</p>	 <p>Labels with callouts: Qty per Box, Littelfuse-IXYS Logo, COO, Lot # + 2-digit Box Sequential, Catalog Part Number, Datecode + Plant Code, SAP Part Number, 2D, and a barcode.</p>
Tube Label	 <p>Labels with callouts: Catalog Part Number, FAB Lot ID, Littelfuse-IXYS Logo, PART NO: IXFB44N100P, QUANTITY: 19, LOT NO: 9AKT2902F, DATE: 10/05/19, ASSEMBLED IN PHILIPPINES, COO.</p>	 <p>Labels with callouts: Littelfuse-IXYS Logo, COO, Catalog Part Number, Lot # + 2-digit Box Sequential, Qty per Tube, Datecode, SAP Part Number, 2D, and a barcode.</p>

There are no changes in the tape & reel, tube specifications/dimensions.

APPENDIX B: Reliability Data Summary

TEST	CONDITION	ENDPOINT	DEVICE	PACKAGE	RESULT
HTRB	MIL-STD-750-1 M1038 Method A; 125°C	1000 hours	IXTT30N60L2	TO-268	0/30
			IXFT50N60P3		0/30
HTGB	JESD22 A108; 150°C	1000 hours	IXTT30N60L2	TO-268	0/30
			IXFT50N60P3		0/30
Temperature Cycle	JESD22-A104 (-55°C to 150°C)	1000 cycles	IXTT30N60L2	TO-268	0/30
			IXFT50N60P3		0/30
HAST	JESD22-A110 (130° C, 85% RH)	96 hours	IXTT30N60L2	TO-268	0/30
UHASt	JESD22-A118A; 130C 85% RH	96 hours	IXTT30N60L2	TO-268	0/30
			IXFT50N60P3		0/30
IOL	MIL-STD-750-1 Method 1037; ΔT= 100C	15,000 cycles	IXTT30N60L2	TO-268	0/24
			IXFT50N60P3		0/24

APPENDIX C: Part Number List

Sl. No.	Part Number	Sl. No.	Part Number	Sl. No.	Part Number
1	IXFT120N15P	38	IXFT50N60P3-TRL	75	IXTT20N50D
2	IXFT120N25T	39	IXFT52N30Q-TRL	76	IXTT20P50P
3	IXFT12N100F	40	IXFT58N20Q-TRL	77	IXTT24P20
4	IXFT12N100Q-TRL	41	IXFT60N50P3	78	IXTT26N50P
5	IXFT12N90Q	42	IXFT69N30P	79	IXTT26N60P
6	IXFT140N10P	43	IXFT6N100F	80	IXTT2N170D2
7	IXFT140N10P-TRL	44	IXFT70N20Q3	81	IXTT30N50L
8	IXFT14N80P	45	IXFT70N30Q3	82	IXTT30N50L2
9	IXFT150N17T2	46	IXFT75N10Q	83	IXTT30N50P
10	IXFT150N20T	47	IXFT7N90Q	84	IXTT30N60L2
11	IXFT15N100Q3	48	IXFT7N90Q-TRL	85	IXTT360N055T2
12	IXFT15N100Q3-TRL	49	IXFT86N30T	86	IXTT36N50P
13	IXFT15N80Q	50	IXFT88N30P	87	IXTT40N50L2
14	IXFT16N120P	51	IXFT88N30P-TRL	88	IXTT40N50L2-TRL
15	IXFT16N120P-TRL	52	IXFT94N30P3	89	IXTT440N055T2
16	IXFT16N80P	53	IXFT94N30T	90	IXTT48P20P
17	IXFT18N100Q3	54	IXFT96N20P	91	IXTT500N04T2
18	IXFT20N100P	55	IXTT100N25P	92	IXTT50P10
19	IXFT24N50Q	56	IXTT10N100D	93	IXTT52N30P
20	IXFT24N80P	57	IXTT10N100D2	94	IXTT60N20L2
21	IXFT24N90P	58	IXTT10N100D2-TRL	95	IXTT64N25P
22	IXFT24N90P-TRL	59	IXTT10P60	96	IXTT68P20T
23	IXFT26N50P	60	IXTT110N10L2	97	IXTT69N30P
24	IXFT26N50Q	61	IXTT110N10L2-TRL	98	IXTT6N120
25	IXFT26N60P	62	IXTT110N10P	99	IXTT6N120-TRL
26	IXFT30N50P	63	IXTT11P50	100	IXTT6N150
27	IXFT30N50Q3	64	IXTT11P50-TRL	101	IXTT74N20P
28	IXFT340N075T2	65	IXTT120N15P	102	IXTT75N10L2
29	IXFT36N50P	66	IXTT12N150	103	IXTT80N20L
30	IXFT36N60P	67	IXTT140N10P	104	IXTT82N25P
31	IXFT400N075T2	68	IXTT140N10P-TRL	105	IXTT88N30P
32	IXFT40N30Q-TRL	69	IXTT140P10T	106	IXTT8P50
33	IXFT44N50P	70	IXTT16N20D2	107	IXTT90P10P
34	IXFT44N50Q3	71	IXTT16N50D2	108	IXTT96N15P
35	IXFT4N100Q	72	IXTT16P60P	109	IXTT96N20P
36	IXFT50N30Q3	73	IXTT170N10P	110	IXTT96N20P-TRL
37	IXFT50N60P3	74	IXTT170N10P-TRL		