Standardized Information for Process/Product Change Notification (PCN)

Based on the JEDEC Standard JESD46 standard (latest release)

Form provided by ZVEI - Revision 5.0

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1. PCN basic data		
1.1 Company	LEM Life Energy Motion	LEM International SA Route du Nant d'Avril 152 1217 Meyrin Switzerland
1.2 PCN No.		**PCN-042_2024_0-OMTB2410802**
1.3 Title of PCN		Second source transistors supplier
1.4 Product Category		Electronic module - Current and voltage sensor
1.5 Issue date		**45463**

1.6 PCN revision history (optional)	1.7 Issue date of previous revision (optional)	1.8 Delta to previous revision (optional)

2. PCN Team	
2.1 Contact supplier	
2.1.1 Name	Magdalena Peycheva - Product Life Cycle Coordinator
2.1.2 Phone	
2.1.3 Email	Mpy@lem.com

2.2 Team supplier (optional)

2.2.1 Name (optional)	2.2.2 Phone (optional)	2.2.3 Email (optional)
Stéphane Rollier - Product Life Cycle manager	0041227061449	sro@lem.com

3. Changes

No.	3.0 Ident	3.1 Category	3.2 Type of change
#1	**SEM-PA-16**	PROCESS - ASSEMBLY	Change of direct material supplier

4. Description of change

	Old	New
Change #1	Current transistor used: Nexperia: BCX55-10,115: Trans GP BJT NPN 60V 1A 1350mW 4-Pin(3+Tab) SOT-89 T/R Current transistor used: Nexperia: BCX52-10,115: Trans GP BJT PNP 60V 1A 1350mW 4-Pin(3+Tab) SOT-89 T/R Automotive AEC-Q101	Current transistor used: Nexperia: BCX55-10,115: Trans GP BJT NPN 60V 1A 1350mW 4-Pin(3+Tab) SOT-89 T/R Second source transistor in addition in the future: MCC: BCX56-16HE3: Trans GP BJT NPN 80V 1A 1300mW 4-Pin(3+Tab) SOT-89 Current transistor used: Nexperia: BCX52-10,115: Trans GP BJT PNP 60V 1A 1350mW 4-Pin(3+Tab) SOT-89 T/R Automotive AEC-Q101 Second source transistor in addition in the future: MCC: BCX53-16HE3: Trans GP BJT PNP 80V 1A 4-Pin(3+Tab) SOT-89
4.1 Anticipated impact on form, fit, function, reliability or processability?	Second source supplier for 2 transistors: Current transistor used: Nexperia: BCX55-10,115 Second source transistor in addition in the future: MCC: BCX56-16HE3 Current transistor used: Nexperia: BCX52-10,115 Second source transistor in addition in the future: MCC: BCX53-16HE3 Comparison between current used transistors and their new second sources alternatives as per the 2 excel files enclosed (called " CompareReport-BCX52-10 vs BCX53-16HE3" and " CompareReport-BCX55-10 vs BCX56-16HE3"). Data sheets of current and future second sources transistors as enclosed. No impact on form, fit, function, reliability, data sheet, process, quality and functional safety.	
4.2 Reference parts with customer number (optional)		

5. Reason / motivation for change	
5.1 Motivation	To secure supply chain, avoid shortages on deliveries.
5.2 Additional explanation (optional)	

6. Marking of parts / traceability of change	
6.1 Description	No change in the marking of the parts. Traceability ensured by datecode.

7. Timing / schedule		
7.1 Date of qualification results		Not applicable
7.2 Last order date (optional)		
7.3 Last delivery date (optional)		
7.4 Intended start of delivery	**45716**	
7.5 Qualification samples available?	15.08.2024	
7.6 Customer feedback required until	**45509**	

8. Qualification / validation				
8.1 Description **(e.g. qual. plan/report, AEC-Q...)**	No applicable.			
8.2 Qualification report and qualification results		issue date		

9. Input to customer for risk assessment process
Not applicable

10. Attachments (e.g. new datasheet, additional documentation, pictures, process flow, sample plan, ...)
Not applicable

11. Affected parts

11.1 Current						11.2 New (if applicable)			
11.1.1 Customer Part No.	**11.1.2 Supplier Part Name**	11.1.3 Supplier Part No. (optional)	**11.1.4 Package Name**	11.1.5 Part Description (optional)	11.1.6 Additional Part Information (optional)	**11.2.2 Supplier Part Name**	11.2.3 Supplier Part No. (optional)	**11.2.4 Package Name**	11.2.6 Additional Part Information (optional)
	LA 205-S								
	LA 205-S/SP1								
	LA 205-S/SP6								
	LA 205-S/SP15								
	LA 205-S/SP19								
	LA 205-S/SP21								
	LA 205-S/SP32								
	LA 205-S/SP33								
	LA 205-S/SP34								
	LA 255-S								
	LA 255-S/SP7								
	LA 305-S								
	LA 305-S/SP1								
	LA 305-S/SP4								
	LA 305-S/SP5								
	LA 305-S/SP6								
	LA 305-S/SP8								
	LA 305-S/SP9								
	LA 305-S/SP15								
	LA 305-S/SP16								
	LA 305-S/SP17								
	LA 305-S/SP19								
	LA 205-T/SP16								
	LA 25-P								
	LV 25-P/SP17								
	LV 25-500/SP1								
	LV 25-1000/SP3								
	LA 55-P								
	LA 55-P/SP1								
	LA 55-P/SP2								
	LA 55-P/SP7								
	LA 55-P/SP11								
	LA 55-P/SP21								
	LA 55-P/SP23								
	LA 55-P/SP26								
	LA 55-P/SP50								
	LA 55-TP								
	LA 55-TP/SP1								

	LA 55-TP/SP27									
	LA 55-TP/SP28									
	LA 100-P									
	LA 100-P/SP4									
	LA 100-P/SP6									
	LA 100-P/SP9									
	LA 100-P/SP13									
	LA 100-P/SP50									
	LA 100-TP									
	LA 100-TP/SP2									
	LA 100-TP/SP7									
	LA 100-TP/SP10									
	LA 125-P									
	LA 125-P/SP1									
	LA 125-P/SP3									
	LA 125-P/SP4									
	LA 125-P/SP7									

Customer Feedback/Approval Form

Title of PCN:			
Second source transistors supplier			
Customer PCN No.		**Supplier PCN No.**	**PCN-042_2024_0-OMTB2410802**
Please check the appropriate box below:			

1. feedback to be provided within 3 weeks after the reception of the PCN.

☐	**1. Feedback**	**date:**	
☐	**We agree with this proposed change for the parts as listed in chapter '11. Affected parts'. Approval letter will be sent in written form.**		
☐	**We agree with this proposed change schedule and will start with the PCN process. Approval letter will be sent in written form after evaluation.**		
☐	**We disapprove because:**		
☐	**Remark:**		

2. feedback to be provided within 6 weeks after the reception of the PCN.

☐	**2. Feedback**	**date:**	
☐	**We acknowledge qualification / validation as assigned in chapter 8 of the PCN.**		
☐	**We need more information:**		
☐	**We need the following samples:**		
☐	**Estimated closing date for PCN:**		

☐	**Final Feedback/Approval**	**date:**	

Sender:	
Company:	
Name:	
Address/Location:	
Signature:	
Date:	

Please return to: [your Sales partner]	
Name:	Magdalena Peycheva - Product Life Cycle Coordinator
Address/Location:	
Phone:	
Fax:	
Email:	Mpy@lem.com

In case LEM does not receive any feedback within 6 weeks at the latest after PCN notification, LEM will assume:

- Customer acceptance to the change

- No need for samples

- No additional need

1. feedback to be provided within 3 weeks after the reception of the PCN.
2. feedback to be provided within 6 weeks after the reception of the PCN.

In case LEM does not receive any feedback within 6 weeks at the latest after PCN notification, LEM will assume:
- Customer acceptance to the change
- No need for samples
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