



Life Energy Motion

Product Change Notification

PCN-132_2022_0-OMTB2229103

Alternative transistor

HAS series

Beijing, 23rd December 2022

Based on the JEDEC Standard JESD46 standard (latest release), please kindly provide your approval for below change within 30 days.

Not for publication unless permission is granted by LEM

Dear customer,

To answer to continuous market requirement for improved performances, and in a permanent effort to improve the quality of its products, LEM intends to proceed to some modification on **HAS series**.

Concerned products:

HAS 100-P; HAS 200-P; HAS 300-P; HAS 400-P; HAS 50-P; HAS 500-P; HAS 600-P;

HAS 100-S; HAS 100-S/SP16; HAS 100-S/SP31; HAS 100-S/SP50; HAS 100-S/SP54;

HAS 150-S; HAS 150-S/SP31;

HAS 200-S; HAS 200-S/SP16; HAS 200-S/SP31;

HAS 200-S/SP50; HAS 200-S/SP52; HAS 200-S/SP54; HAS 200-S/SP58;

HAS 300-S; HAS 300-S/SP50; HAS 300-S/SP52; HAS 300-S/SP54;

HAS 400-S; HAS 400-S/SP50; HAS 400-S/SP54; HAS 400-S/SP55;

HAS 50-S; HAS 50-S/SP16; HAS 50-S/SP50;

HAS 500-S; HAS 500-S/SP16;

HAS 500-S/SP50; HAS 500-S/SP56; HAS 500-S/SP57; HAS 500-S/SP58;

HAS 600-S; HAS 600-S/SP50; HAS 600-S/SP54;

HAS 75-S/SP16; HAS 75-S/SP54;





Life Energy Motion

Change:

➤ ***Description of the technical change:***

New second source transistor.

Current transistor:

Renesas Electronics (NEC): Trans GP BJT PNP 50V 0.1A 200mW Automotive 3-Pin Mini-Mold: Ref: 2SA812-T1B-A/S6

New second source transistor:

Micro Commercial Components: Trans GP BJT PNP 50V 0.1A 3-Pin SOT-23: Ref: 2SA812(SOT-23)/M6

Data sheets of the current and second source transistors are enclosed in annex files.

Comparison between current and second source transistors is enclosed in annex file.

➤ ***Reason of the technical change:***

Securing the supplying with second source. Delivery shortage risk.

Impact on the product:

- On the form: NO
- On the fit: NO
- On the function: NO
- On the reliability: NO
- On the data sheet: NO
- On the process: NO
- On the quality: NO





Life Energy Motion

Schedule of the modification:

Start of delivery of modified product	End January 2023
---------------------------------------	-------------------------

Customer feedback:

To ensure a smooth change, and in order to answer to any of your requirements issued by this change, please fill in the **Customer Return Sheet** (Annex 1 on page 4) and send it back to us **following 30 days at the latest.**

In case we do not receive any answer **following 30 days at the latest**, we will assume:

- Your acceptance to the change.
- No need for samples
- No additional need.

Please return the Customer Return Sheet to:

LEM

Mail to:

After customer acknowledgement, lack of additional customer response within the time defined until the change implementation constitutes acceptance of the change by the customer.

Sincerely yours,

Stéphane ROLLIER

Product Manager





Life Energy Motion

Customer Return Sheet

Annex 1

part of

PCN-132_2022_0-OMTB2229103

Alternative transistor

HAS series

Based on the JEDEC Standard JESD46 standard (latest release), please kindly provide your approval for below change within 30 days.

Not for publication unless permission is granted by LEM

To: LEM

From:

Mail to:

Company:

Fax:

With this Customer Return Sheet, LEM asks you to fill in the requested information below.

Please return this sheet to LEM in the following 30 days at the latest.
In case no answer will be received, your confirmation and no request for samples will be assumed.





Life Energy Motion

Documentation required from LEM to release changed parts for delivery:

- Detailed Qualification tests report.
- (others, please specify).

Request for Samples

We ask you to fill in below if and how many samples you will need for own evaluation tests.

	Samples needed for customer approval tests
Type	
No. of Samples	
Delivery Date	

.....
(Date)

.....
(Authorized Customer) (Signature)

