

Product / Process Change Notification

N° 2013-078-A

Dear Customer,

Please find attached our INFINEON Technologies PCN:

Implementation of Copper wire bonding and Halogen-free¹⁾ mold compound for products assembled in lead-free package PG-SOT223 & SOT89

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before [07.02.2014](#).
- Infineon aligns with the widely-recognized JEDEC STANDARD "JESD46-C", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change."

Your prompt reply will help Infineon Technologies to assure a smooth and well executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

- This PCN includes a Product Discontinuation. Kindly refer to attachment [1_cip13078_a](#).

Your attention and response to this matter is highly appreciated.

Disclaimer:

If we do not receive any response by the date in the PCN above we consider this as the acceptance of the PCN. After the last order date as stated herein, purchase orders related to the unchanged product(s) cannot be accepted.

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- SUBJECT OF CHANGE:**
- Implementation of Copper wire bonding
 - Implementation of halogen-free¹⁾ mold compound
- PRODUCTS AFFECTED:** Products assembled in lead free package PG-SOT223 & SOT89, as listed per attachment 1_cip13078_a.
- REASON OF CHANGE:** Implementation of Copper wire bonding process improves the quality and reliability of Infineon products and ensures market competitiveness.
- Halogen-free¹⁾ mold compound material does cope with the increasing requirements from customers for environment-friendly products according the WEEE directive.

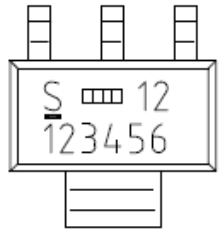
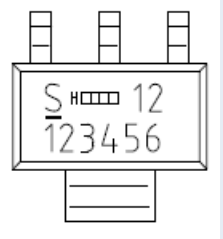
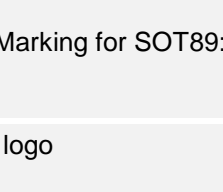
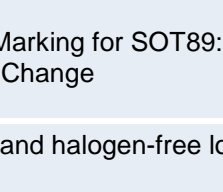
¹⁾ **Note:**

Halogen-free according to International Electrotechnical Commission (IEC) Standard IEC 61249-2-21:

- 900 ppm maximum Chlorine
- 900 ppm maximum Bromine
- 1500 ppm maximum total Halogens

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DESCRIPTION OF CHANGE:	<u>OLD</u>	<u>NEW</u>
Mold compound	Halogen containing mold compound	Halogen-free ¹⁾ mold compound
Wire bonding material	Au wire	Cu wire
Marking on device	Device Marking for SOT223: 	Device Marking for SOT223: - "H" in front of Date Code 
	Device Marking for SOT89: 	Device Marking for SOT89: - No Change 
Product barcode label	Pb free logo	Pb free and halogen-free logo

PRODUCT IDENTIFICATION:

External traceability

A) Sales code

"E" in sales code will be substituted by "H" (see 1_cip13078_a)

B) SP numbers (ordering code)

Introduction of new SP numbers (see 1_cip13078_a)

Internal traceability

Ensured via Bau number, lot number and date code marking.

TIME SCHEDULE:

■ Final qualification report:

See attachment 2_cip13078_a

■ First samples available:

Lead types available.

All other types on request with a lead time of 6 weeks from customer sample order till PCN sample delivery

■ Start of delivery:

From April 2014 onwards

Earlier customer deliveries on special customer agreement possible.

■ Last order date of unchanged product:

30-06-2014

■ Last delivery date of unchanged product:

30-12-2014

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ASSESSMENT:

- Product data sheet values and package dimensions remain unchanged
- Product reliability meets the high quality standards, verified by full product qualification on defined test vehicles
- Advantages of Cu wire against Au wire concerning quality and reliability see 3_cip30178_a

DOCUMENTATION:

- 1_cip13078_a Affected product list including
 - a. Details in changes
 - b. Product discontinuation & new ordering codes
- 2_cip13078_a Final Qualification Report
- 3_cip13078_a Customer information package:
Additional information on Cu wiring

Product Discontinuation



PD13078

Referring to PCN N° 2013-078-A

■ Last order date of unchanged product:	30-06-2014
■ Last delivery date of unchanged product	30-12-2014

DISCONTINUED				NEW (REPLACEMENT)		
Device	SP N°	OPN	Package	Device	SP N°	Package

Pls. refer to 1_cip13078_a

If you have any questions, please do not hesitate to contact your local Sales office.

PRODUCT DISCONTINUATION

PCN N° 2013-078-A

Implementation of Halogen-free mold compound and Copper wire bonding for products assembled in lead-free package PG-SOT223 & SOT89.



Last order date: 6/30/2014
Last delivery date: 12/30/2014

Type	DISCONTINUED			NEW (REPLACEMENT)		
	Sales Name	SP number	Package	Sales Name	SP number	Package
AF TRANSISTOR (T)	BCP 49 E6327	SP000010685	PG-SOT223	BCP 49 H6327	SP000747598	PG-SOT223
AF TRANSISTOR (T)	BCP 49 E6359	SP000010684	PG-SOT223	BCP 49 H6359	SP000748082	PG-SOT223
AF TRANSISTOR (T)	BCP 49 E6419	SP000010686	PG-SOT223	BCP 49 H6419	SP000748086	PG-SOT223
AF TRANSISTOR (T)	BCP 51 E6327	SP000010692	PG-SOT223	BCP 51 H6327	SP000748088	PG-SOT223
AF TRANSISTOR (T)	BCP 51-16 E6327	SP000010694	PG-SOT223	BCP 51-16 H6327	SP000748090	PG-SOT223
AF TRANSISTOR (T)	BCP 51-16 E6433	SP000010703	PG-SOT223	BCP 51-16 H6433	SP000748092	PG-SOT223
AF TRANSISTOR (T)	BCP 52-16 E6327	SP000010696	PG-SOT223	BCP 52-16 H6327	SP000748096	PG-SOT223
AF TRANSISTOR (T)	BCP 53-10 E6327	SP000010697	PG-SOT223	BCP 53-10 H6327	SP000748122	PG-SOT223
AF TRANSISTOR (T)	BCP 53-16 E6327	SP000010698	PG-SOT223	BCP 53-16 H6327	SP000748124	PG-SOT223
AF TRANSISTOR (T)	BCP 53-16 E6433	SP000010702	PG-SOT223	BCP 53-16 H6433	SP000748126	PG-SOT223
AF TRANSISTOR (T)	BCP 54 E6327	SP000010707	PG-SOT223	BCP 54 H6327	SP000748128	PG-SOT223
AF TRANSISTOR (T)	BCP 54-16 E6327	SP000010709	PG-SOT223	BCP 54-16 H6327	SP000748130	PG-SOT223
AF TRANSISTOR (T)	BCP 54-16 E6433	SP000010717	PG-SOT223	BCP 54-16 H6433	SP000748132	PG-SOT223
AF TRANSISTOR (T)	BCP 55 E6327	SP000010713	PG-SOT223	BCP 55 H6327	SP000748362	PG-SOT223
AF TRANSISTOR (T)	BCP 55-16 E6327	SP000010711	PG-SOT223	BCP 55-16 H6327	SP000748364	PG-SOT223
AF TRANSISTOR (T)	BCP 56-10 E6327	SP000010712	PG-SOT223	BCP 56-10 H6327	SP000748366	PG-SOT223
AF TRANSISTOR (T)	BCP 56-16 E6327	SP000010706	PG-SOT223	BCP 56-16 H6327	SP000748370	PG-SOT223
AF TRANSISTOR (T)	BCP 69-25 E6327	SP000015154	PG-SOT223	BCP 69-25 H6327	SP000748374	PG-SOT223
AF TRANSISTOR (T)	BDP 947 E6327	SP000010931	PG-SOT223	BDP 947 H6327	SP000748376	PG-SOT223
AF TRANSISTOR (T)	BDP 948 E6327	SP000010938	PG-SOT223	BDP 948 H6327	SP000748378	PG-SOT223
AF TRANSISTOR (T)	BDP 948 E6433	SP000010943	PG-SOT223	BDP 948 H6433	SP000748380	PG-SOT223
AF TRANSISTOR (T)	BDP 949 E6327	SP000010932	PG-SOT223	BDP 949 H6327	SP000748382	PG-SOT223
AF TRANSISTOR (T)	BDP 950 E6327	SP000010939	PG-SOT223	BDP 950 H6327	SP000748522	PG-SOT223
AF TRANSISTOR (T)	BDP 953 E6327	SP000010934	PG-SOT223	BDP 953 H6327	SP000748526	PG-SOT223
AF TRANSISTOR (T)	BDP 954 E6327	SP000010941	PG-SOT223	BDP 954 H6327	SP000748528	PG-SOT223
AF TRANSISTOR (T)	BFN 38 E6327	SP000011006	PG-SOT223	BFN 38 H6327	SP000748530	PG-SOT223
AF TRANSISTOR (T)	BFN 39 E6327	SP000014781	PG-SOT223	BFN 39 H6327	SP000748532	PG-SOT223
AF TRANSISTOR (T)	BSP 50 E6327	SP000011126	PG-SOT223	BSP 50 H6327	SP000748534	PG-SOT223
AF TRANSISTOR (T)	BSP 51 E6327	SP000011127	PG-SOT223	BSP 51 H6327	SP000748536	PG-SOT223
AF TRANSISTOR (T)	BSP 52 E6327	SP000011128	PG-SOT223	BSP 52 H6327	SP000748886	PG-SOT223
AF TRANSISTOR (T)	BSP 60 E6327	SP000011131	PG-SOT223	BSP 60 H6327	SP000749082	PG-SOT223
AF TRANSISTOR (T)	BSP 61 E6327	SP000011132	PG-SOT223	BSP 61 H6327	SP000749562	PG-SOT223
AF TRANSISTOR (T)	BSP 62 E6327	SP000011133	PG-SOT223	BSP 62 H6327	SP000749564	PG-SOT223
AF TRANSISTOR (T)	PZTA 14 E6327	SP000010688	PG-SOT223	PZTA 14 H6327	SP000749566	PG-SOT223
AF TRANSISTOR (T)	PZTA 42 E6327	SP000014780	PG-SOT223	PZTA 42 H6327	SP000749568	PG-SOT223
AF DIODE (Q)	BAW 78D E6327	SP000010370	PG-SOT89	BAW 78D H6327	SP001125530	PG-SOT89
AF DIODE (Q)	BAW 79D E6327	SP000014594	PG-SOT89	BAW 79D H6327	SP001125532	PG-SOT89
AF TRANSISTOR (T)	BCV 28 E6327	SP000010879	PG-SOT89	BCV 28 H6327	SP001125534	PG-SOT89
AF TRANSISTOR (T)	BCV 29 E6327	SP000010883	PG-SOT89	BCV 29 H6327	SP001125300	PG-SOT89
AF TRANSISTOR (T)	BCV 48 E6327	SP000010880	PG-SOT89	BCV 48 H6327	SP001125544	PG-SOT89

AF TRANSISTOR (T)	BCV 49 E6327	SP000010882	PG-SOT89	BCV 49 H6327	SP001125332	PG-SOT89
AF TRANSISTOR (T)	BCX 51 E6327	SP000014826	PG-SOT89	BCX 51 H6327	SP001125334	PG-SOT89
AF TRANSISTOR (T)	BCX 51-16 E6327	SP000014827	PG-SOT89	BCX 51-16 H6327	SP001125336	PG-SOT89
AF TRANSISTOR (T)	BCX 51-16 E6433	SP000913728	PG-SOT89	BCX 51-16 H6433	SP001125338	PG-SOT89
AF TRANSISTOR (T)	BCX 52 E6327	SP000014828	PG-SOT89	BCX 52 H6327	SP001125340	PG-SOT89
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AF TRANSISTOR (T)	BCX 53 E6327	SP000010906	PG-SOT89	BCX 53 H6327	SP001125346	PG-SOT89
AF TRANSISTOR (T)	BCX 53-10 E6327	SP000010908	PG-SOT89	BCX 53-10 H6327	SP001125348	PG-SOT89
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AF TRANSISTOR (T)	BCX 54-16 E6327	SP000010918	PG-SOT89	BCX 54-16 H6327	SP001125468	PG-SOT89
AF TRANSISTOR (T)	BCX 55 E6327	SP000010916	PG-SOT89	BCX 55 H6327	SP001125470	PG-SOT89
AF TRANSISTOR (T)	BCX 55-16 E6327	SP000010920	PG-SOT89	BCX 55-16 H6327	SP001125472	PG-SOT89
AF TRANSISTOR (T)	BCX 55-16 E6433	SP000010922	PG-SOT89	BCX 55-16 H6433	SP001125474	PG-SOT89
AF TRANSISTOR (T)	BCX 56 E6327	SP000010914	PG-SOT89	BCX 56 H6327	SP001125476	PG-SOT89
AF TRANSISTOR (T)	BCX 56 E6359	SP000010911	PG-SOT89	BCX 56 H6359	SP001125478	PG-SOT89
AF TRANSISTOR (T)	BCX 56-10 E6327	SP000010915	PG-SOT89	BCX 56-10 H6327	SP001125480	PG-SOT89
AF TRANSISTOR (T)	BCX 56-16 E6327	SP000010913	PG-SOT89	BCX 56-16 H6327	SP001125482	PG-SOT89
AF TRANSISTOR (T)	BCX 56-16 E6433	SP000017942	PG-SOT89	BCX 56-16 H6433	SP001125484	PG-SOT89
AF TRANSISTOR (T)	BCX 68-10 E6327	SP000010924	PG-SOT89	BCX 68-10 H6327	SP001125486	PG-SOT89
AF TRANSISTOR (T)	BCX 68-16 E6327	SP000010925	PG-SOT89	BCX 68-16 H6327	SP001125488	PG-SOT89
AF TRANSISTOR (T)	BCX 68-25 E6327	SP000010926	PG-SOT89	BCX 68-25 H6327	SP001125490	PG-SOT89
AF TRANSISTOR (T)	BCX 69-10 E6327	SP000010928	PG-SOT89	BCX 69-10 H6327	SP001125298	PG-SOT89
AF TRANSISTOR (T)	BCX 69-16 E6327	SP000010929	PG-SOT89	BCX 69-16 H6327	SP001125264	PG-SOT89
AF TRANSISTOR (T)	BCX 69-25 E6327	SP000010930	PG-SOT89	BCX 69-25 H6327	SP001125266	PG-SOT89
AF TRANSISTOR (T)	BFN 18 E6327	SP000010997	PG-SOT89	BFN 18 H6327	SP001125290	PG-SOT89
AF TRANSISTOR (T)	BFN 19 E6327	SP000010998	PG-SOT89	BFN 19 H6327	SP001125292	PG-SOT89
RF BIP TRANSISTOR (D)	BFQ 19S E6327	SP000011042	PG-SOT89	BFQ 19S H6327	SP001125294	PG-SOT89
RF BIP TRANSISTOR (D)	BFQ 19S E6359	SP000011043	PG-SOT89	BFQ 19S H6359	SP001125296	PG-SOT89