



# Final Product/Process Change Notification

Document #:FPCN24808X

Issue Date:29 Jun 2022

<b>Title of Change:</b>	Qualification of EME-E120GF mold compound in TO92 package at JCET, PNP transistor sourcing from Phenitec Semiconductor.
<b>Proposed First Ship date:</b>	06 Oct 2022 or earlier if approved by customer
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Hiroshi.Koizumi@onsemi.com">Hiroshi.Koizumi@onsemi.com</a>
<b>PCN Samples Contact:</b>	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:ChangKit.Mok@onsemi.com">ChangKit.Mok@onsemi.com</a>
<b>Type of Notification:</b>	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>
<b>Marking of Parts/ Traceability of Change:</b>	Customer may receive the parts once FPCN expired or earlier depending on customer approval. Parts from new assembly & test site can be identified through product marking which follow onsemi marking format.
<b>Change Category:</b>	Assembly Change
<b>Change Sub-Category(s):</b>	Material Change

**Sites Affected:**

onsemi Sites	External Foundry/Subcon Sites
None	JCET, China

**Description and Purpose:**

This final notification is to inform the change of mold compound at JCET packaged in TO92 for Phenitec’s PNP transistor. This change is to improve Reliability performance.

All other aspects of the impacted products (form, fit, function) will remain unchanged.

Piece part change

	Wafer fab	From	To
Mold Compound	Phenitec Semiconductor, Japan	HHCK EMG-200	Changchun EME-E120GF
	Onsemi Seremban-ISMF Fab, Malaysia	HHCK EMG-200	No Change
	Onsemi Niigata Fab, Japan	HHCK EMG-200	No change

There is no product marking change as a result of this change.



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## Reliability Data Summary:

QV DEVICE NAME: KSA1013YTA

RMS: S82292

PACKAGE: TO92

Specification	Condition	Interval	Results
JESD22-A108	Ta= 150°C, 100% max rated V	1008 hrs	0/231
JESD22-A103	Ta= 150°C	1008 hrs	0/231
MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 2 min	15,000 cyc	0/231
JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
JESD22-A101	130°C, 85% RH, 18.8psig, 80% max rated V	1008 hrs	0/231
JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231

## Electrical Characteristics Summary:

The temperature characterization meets datasheet specification. Detail of Electrical characterization result is available upon request.

## List of Affected Parts:

**Note:** Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Part Number	Qualification Vehicle
2N3906BU	KSA1013YTA
2N3906TA	KSA1013YTA
2N3906TAR	KSA1013YTA
2N3906TF	KSA1013YTA
2N3906TFR	KSA1013YTA
2N4403BU	KSA1013YTA
2N4403TA	KSA1013YTA
2N4403TAR	KSA1013YTA
2N4403TF	KSA1013YTA
2N4403TFR	KSA1013YTA
2N5401YBU	KSA1013YTA
2N5401YTA	KSA1013YTA
2N6520TA	KSA1013YTA
BC32725BU	KSA1013YTA
BC32725TA	KSA1013YTA



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BC32740BU	KSA1013YTA
BC32740TA	KSA1013YTA
BC516-D27Z	KSA1013YTA
BC556ABU	KSA1013YTA
BC556ATA	KSA1013YTA
BC556BTA	KSA1013YTA
BC556BTF	KSA1013YTA
BC556BTFR	KSA1013YTA
BC557ATA	KSA1013YTA
BC557BTA	KSA1013YTA
BC557BTF	KSA1013YTA
BC559BTA	KSA1013YTA
BC559CTA	KSA1013YTA
BC636TA	KSA1013YTA
BC638TA	KSA1013YTA
BC640TA	KSA1013YTA
KSA1013YBU	KSA1013YTA
KSA1013YTA	KSA1013YTA
KSA1015YTA	KSA1013YTA
KSA1281YTA	KSA1013YTA
KSA708CYTA	KSA1013YTA
KSA708YBU	KSA1013YTA
KSA708YTA	KSA1013YTA
KSA916YTA	KSA1013YTA
KSA928AYTA	KSA1013YTA
KSA992FATA	KSA1013YTA
KSA992FBTA	KSA1013YTA
KSA992FBU	KSA1013YTA
KSA992FTA	KSA1013YTA
KSP2907ABU	KSA1013YTA
KSP2907ACTA	KSA1013YTA
KSP2907ATA	KSA1013YTA
KSP2907ATF	KSA1013YTA
KSP55TA	KSA1013YTA



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KSP92BU	KSA1013YTA
KSP92TA	KSA1013YTA
MPS751	KSA1013YTA
MPS751-D26Z	KSA1013YTA
PN2907ABU	KSA1013YTA
PN2907ATA	KSA1013YTA
PN2907ATAR	KSA1013YTA
PN2907ATF	KSA1013YTA
SS8550DTA	KSA1013YTA
SS8550DBU	KSA1013YTA
SS8550CTA	KSA1013YTA
SS8550CBU	KSA1013YTA
PN2907BU	KSA1013YTA
PN2907ATFR	KSA1013YTA
KSP92ATA	KSA1013YTA

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
2N3906BU		KSA1013YTA	NA	
2N3906TA		KSA1013YTA	NA	
2N3906TAR		KSA1013YTA	NA	
2N3906TF		KSA1013YTA	NA	
2N3906TFR		KSA1013YTA	NA	
2N4403BU	2N4403-ND	KSA1013YTA	NA	
2N4403TA		KSA1013YTA	NA	
2N4403TAR		KSA1013YTA	NA	
2N4403TF		KSA1013YTA	NA	
2N4403TFR		KSA1013YTA	NA	
2N5401YBU		KSA1013YTA	NA	
2N6520TA		KSA1013YTA	NA	
BC32725BU		KSA1013YTA	NA	
BC32725TA		KSA1013YTA	NA	
BC32740BU		KSA1013YTA	NA	
BC32740TA		KSA1013YTA	NA	
BC516-D27Z		KSA1013YTA	NA	
BC556ABU		KSA1013YTA	NA	
BC556ATA		KSA1013YTA	NA	
BC556BTA		KSA1013YTA	NA	
BC556BTF		KSA1013YTA	NA	
BC556BTFR		KSA1013YTA	NA	
BC557ATA		KSA1013YTA	NA	
BC557BTA		KSA1013YTA	NA	
BC557BTF		KSA1013YTA	NA	
BC559BTA		KSA1013YTA	NA	
BC636TA		KSA1013YTA	NA	
BC638TA		KSA1013YTA	NA	
BC559CTA		KSA1013YTA	NA	
KSA1013YBU		KSA1013YTA	NA	
KSA1013YTA		KSA1013YTA	NA	
BC640TA		KSA1013YTA	NA	
KSA1281YTA		KSA1013YTA	NA	
KSA1015YTA		KSA1013YTA	NA	
KSA708YTA		KSA1013YTA	NA	
KSA708CYTA		KSA1013YTA	NA	
KSA916YTA		KSA1013YTA	NA	
KSA708YBU		KSA1013YTA	NA	
KSA992FATA		KSA1013YTA	NA	
KSA928AYTA		KSA1013YTA	NA	
KSA992FBU		KSA1013YTA	NA	
KSA992FBTA		KSA1013YTA	NA	
KSP2907ABU		KSA1013YTA	NA	
KSA992FTA		KSA1013YTA	NA	
KSP2907ATA		KSA1013YTA	NA	
KSP2907ACTA		KSA1013YTA	NA	
KSP55TA		KSA1013YTA	NA	
KSP2907ATF		KSA1013YTA	NA	
KSP92TA		KSA1013YTA	NA	
KSP92BU		KSA1013YTA	NA	
MPS751-D26Z		KSA1013YTA	NA	
MPS751		KSA1013YTA	NA	
PN2907ATA		KSA1013YTA	NA	
PN2907ABU		KSA1013YTA	NA	
PN2907ATF		KSA1013YTA	NA	
PN2907ATAR		KSA1013YTA	NA	
SS8550DBU		KSA1013YTA	NA	
SS8550DTA		KSA1013YTA	NA	
SS8550CBU		KSA1013YTA	NA	
SS8550CTA		KSA1013YTA	NA	

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**Appendix A: Changed Products**

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
PN2907BU		KSA1013YTA	NA	
PN2907ATFR		KSA1013YTA	NA	