



Final Product/Process Change Notification

Document #:FPCN24808X

Issue Date:29 Jun 2022

Title of Change:	Qualification of EME-E120GF mold compound in TO92 package at JCET, PNP transistor sourcing from Phenitec Semiconductor.
Proposed First Ship date:	06 Oct 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Hiroshi.Koizumi@onsemi.com
PCN Samples Contact:	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.
Additional Reliability Data:	Contact your local onsemi Sales Office or ChangKit.Mok@onsemi.com
Type of Notification:	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 PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	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.
Change Category:	Assembly Change
Change Sub-Category(s):	Material Change

Sites Affected:

onsemi Sites

None

External Foundry/Subcon Sites

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-ISM 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