



Final Product/Process Change Notification
 Document #:FPCN24980X
 Issue Date:30 Mar 2023

Title of Change:	EMC change from Samsung SI7200DX2 to KCC KTMC1050GFB for Transistor TO-220 package in Tongfu Microelectronics Co., Ltd, China (TFME)	
Proposed First Ship date:	01 Aug 2023 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or khairil.fk@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 Lalan.Ortega@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:	No change in marking, Affected products will be identified by date code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
None	Tongfu microelectronics	

Description and Purpose:

onsemi wishes to inform our customers of a change in mold compounds used for the devices listed in this FPCN. This change is a result of an EOL/end of life notification received from Samsung for several of their Samsung Mold Compounds.

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

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

	From	To
Mold Compound	SI7200DX2; Supplier: Samsung	KTMC1050GFB; Supplier: KCC



Reliability Data Summary:

QV DEVICE NAME: MJE5852G
RMS: RMS V86584, O87699
PACKAGE: TO-220

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Ta = 150°C, 100% max rated V	1008 hrs	0 / 231
HTSL	JESD22-A103	Ta = 150°C	1008 hrs	0 / 231
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta=+25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc	0 / 120
TC	JESD22-A104	Ta= -55°C to +150°C	1000 cyc	0 / 231
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008hrs	0 / 231
H3T	JESD22-A-118, or A101	Ta = 85°C, 85% RH	1008hrs	0 / 231
RSH	JESD22- B106	Ta = 268°C, 10 sec Required for through hole devices only		0 / 30
RSH	JESD22- B106	Ta = 268C, 10 sec		0 / 90
SD	JSTD002	Ta = 245C, 10 sec		0 / 45
PD	JESD22 B100	Per POD / Case Outline, Verify physical dimensions to specifications	0 hr	0 / 30
DPA	AEC Q101-004 Section 4	Following TC / H3TRB / HTRB		0 / 18
ED	Electrical Distribution / Characterization	Tri Temperature, Per datasheet	0 hr	0 / 30

Electrical Characteristics Summary:

Electrical characteristics are not impacted

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
2N6388G	MJE5852G
2N6487G	MJE5852G
2N6488G	MJE5852G
2N6491G	MJE5852G
BD241CG	MJE5852G
BD243CG	MJE5852G
BD244CG	MJE5852G
BDX33BG	MJE5852G
MJE15029G	MJE5852G



Final Product/Process Change Notification
Document #:FPCN24980X
Issue Date:30 Mar 2023

MJE15030G	MJE5852G
MJE15031G	MJE5852G
MJE15032G	MJE5852G
MJE15033G	MJE5852G
MJE15035G	MJE5852G
MJE2955TG	MJE5852G
MJE3055TG	MJE5852G
MJE5730G	MJE5852G
TIP120G	MJE5852G
TIP117G	MJE5852G
TIP116G	MJE5852G
TIP115G	MJE5852G
TIP112G	MJE5852G
TIP111G	MJE5852G
TIP110G	MJE5852G
TIP107G	MJE5852G
TIP102G	MJE5852G
MJE5852G	MJE5852G
MJE5731G	MJE5852G
MJE5731AG	MJE5852G
2N6387G	MJE5852G
2N6292G	MJE5852G
2N6043G	MJE5852G
2N6045G	MJE5852G
2N6288G	MJE5852G
TIP42G	MJE5852G
TIP42CG	MJE5852G
TIP42BG	MJE5852G
TIP42AG	MJE5852G
TIP41CG	MJE5852G
TIP41BG	MJE5852G
TIP41AG	MJE5852G
TIP32G	MJE5852G
TIP31G	MJE5852G



Final Product/Process Change Notification

Document #:FPCN24980X

Issue Date:30 Mar 2023

TIP31CG	MJE5852G
TIP31BG	MJE5852G
TIP31AG	MJE5852G
TIP30CG	MJE5852G
TIP29CG	MJE5852G
TIP29BG	MJE5852G
TIP29AG	MJE5852G
TIP127G	MJE5852G
TIP122G	MJE5852G
TIP121G	MJE5852G
MJE15028G	MJE5852G
D45VH10G	MJE5852G
D45H8G	MJE5852G
D45H11G	MJE5852G
D44VH10G	MJE5852G
D44H8G	MJE5852G
D44H11G	MJE5852G
BU406G	MJE5852G
BDX53CG	MJE5852G
BDX53BG	MJE5852G
BDX33CG	MJE5852G

DIKG: DIGI-KEY (page 1 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
2N6388G		MJE5852G	NA	
2N6488G		MJE5852G	NA	
2N6491G		MJE5852G	NA	
BD241CG		MJE5852G	NA	
BD243CG		MJE5852G	NA	
BD244CG		MJE5852G	NA	
BDX33BG		MJE5852G	NA	
MJE15029G		MJE5852G	NA	
MJE15030G		MJE5852G	NA	
MJE15031G		MJE5852G	NA	
2N6487G		MJE5852G	NA	
MJE15032G		MJE5852G	NA	
MJE15035G		MJE5852G	NA	
MJE15033G		MJE5852G	NA	
MJE3055TG		MJE5852G	NA	
MJE2955TG		MJE5852G	NA	
TIP120G		MJE5852G	NA	
MJE5730G		MJE5852G	NA	
TIP117G		MJE5852G	NA	
TIP112G		MJE5852G	NA	
TIP111G		MJE5852G	NA	
TIP116G		MJE5852G	NA	
TIP110G		MJE5852G	NA	
TIP107G		MJE5852G	NA	
TIP115G		MJE5852G	NA	
MJE5852G		MJE5852G	NA	
TIP102G		MJE5852G	NA	
MJE5731G		MJE5852G	NA	
2N6387G		MJE5852G	NA	
MJE5731AG		MJE5852G	NA	
2N6043G		MJE5852G	NA	
2N6292G		MJE5852G	NA	
2N6288G		MJE5852G	NA	
2N6045G		MJE5852G	NA	
TIP42CG		MJE5852G	NA	
TIP42G		MJE5852G	NA	
TIP42AG		MJE5852G	NA	
TIP42BG		MJE5852G	NA	
TIP41BG		MJE5852G	NA	
TIP41CG		MJE5852G	NA	
TIP32G		MJE5852G	NA	
TIP41AG		MJE5852G	NA	
TIP31CG		MJE5852G	NA	
TIP31G		MJE5852G	NA	
TIP31AG		MJE5852G	NA	
TIP31BG		MJE5852G	NA	
TIP30CG		MJE5852G	NA	
TIP29BG		MJE5852G	NA	
TIP29CG		MJE5852G	NA	
TIP127G		MJE5852G	NA	
TIP29AG		MJE5852G	NA	
TIP121G		MJE5852G	NA	
TIP122G		MJE5852G	NA	
D45VH10G		MJE5852G	NA	
MJE15028G		MJE5852G	NA	
D45H11G		MJE5852G	NA	
D45H8G		MJE5852G	NA	
D44H8G		MJE5852G	NA	
D44VH10G		MJE5852G	NA	
BU406G		MJE5852G	NA	

Appendix A: Changed Products

PCN#: FPCN24980X
Issue Date: Mar 29, 2023

DIKG: DIGI-KEY (page 2 of 2)

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
BDX53CG		MJE5852G	NA	
D44H11G		MJE5852G	NA	
BDX53BG		MJE5852G	NA	
BDX33CG		MJE5852G	NA	