



# Initial Product/Process Change Notification

Document #: IPCN24980X

Issue Date: 30 Sep 2022

<b>Title of Change:</b>	EMC change from Samsung SI7200DX2 to KCC KTMC1050GFB / Kehua KHG300X for Transistor TO-220 package in Tongfu Microelectronics Co., Ltd, China (TFME)	
<b>Proposed First Ship date:</b>	09 Mar 2023 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Jim.Yeh@onsemi.com">Jim.Yeh@onsemi.com</a> or <a href="mailto:khairil.fk@onsemi.com">khairil.fk@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>Type of Notification:</b>	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> >	
<b>Marking of Parts/ Traceability of Change:</b>	No change in marking, Affected products will be identified by date code	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Material Change	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	Tongfu Microelectronics Co. Ltd, China (TFME)	
<b>Description and Purpose:</b>		
<p>onsemi wishes to inform our customers of a change in mold compounds used for the devices listed in this IPCN.</p> <p>This change is a result of an End-of-Life notification received from Samsung for several of their Samsung Mold Compounds.</p> <p>All other aspects of the impacted products (form, fit, function) will remain unchanged.</p> <p>There is no product marking change as a result of this change</p>		
	<b>From</b>	<b>To</b>
<b>Mold Compound</b>	SI7200DX2 Supplier: Samsung	KTMC1050GFB Supplier: KCC
		KHG300X Supplier: Kehua



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## Qualification Plan:

QV DEVICE NAME: MJE5852G

PACKAGE: TO-220

Test	Specification	Condition	Interval
HTRB	JESD22-A108	Ta = 85°C, 80% rated	1008 hrs
HTSL	JESD22-A103	Ta = 150°C	1008 hrs
IOL	MIL-STD-750 (M1037) AEC-Q101	Ta = +25°C, delta Tj=100°C On/off = 3.5 min	8572 cyc
TC	JESD22-A104	Ta = -65°C to +150°C	1000 cyc
uHAST	JESD22-A118	Ta = 130°C, 85% RH, 18.8psig, unbiased	96 hrs
H3TRB	JESD22 A101	Ta = 85°C, 85% RH, V=80% rated V	1008 hrs
RSH	JESD22- B106	Ta = 265C, 10 sec	
SD	JSTD002	Ta = 245C, 10 sec	
PD	JESD22 B100	Per POD / Case Outline, Verify physical dimensions to specifications	0 hr
DPA	AEC Q101-004 Section 4	Following TC / H3TRB / HTRB	
ED	Electrical Distribution / Characterization	Tri Temperature, Per datasheet	0 hr
TR	JESD-24-3, 24-4, 24-6 as appropriate	per device specification, pre & post process change	0 hr

## 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
MJE5850G	MJE5852G
MJE5851G	MJE5852G
MJE5852G	MJE5852G
D44H11G	MJE5852G
D44H8G	MJE5852G
D44VH10G	MJE5852G
D45H11G	MJE5852G
D45H8G	MJE5852G
D45VH10G	MJE5852G
TIP29AG	MJE5852G
TIP29BG	MJE5852G
TIP29CG	MJE5852G
BDX33BG	MJE5852G
BDX33CG	MJE5852G



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BDX53BG	MJE5852G
BDX53CG	MJE5852G
BU406G	MJE5852G
MJE15028G	MJE5852G
MJE15029G	MJE5852G
MJE15030G	MJE5852G
MJE15031G	MJE5852G
MJE15032G	MJE5852G
MJE15033G	MJE5852G
MJE15035G	MJE5852G
MJE2955TG	MJE5852G
MJE3055TG	MJE5852G
MJE5730G	MJE5852G
MJE5731AG	MJE5852G
MJE5731G	MJE5852G
TIP102G	MJE5852G
TIP107G	MJE5852G
TIP110G	MJE5852G
TIP111G	MJE5852G
TIP112G	MJE5852G
TIP115G	MJE5852G
TIP116G	MJE5852G
TIP117G	MJE5852G
TIP120G	MJE5852G
TIP121G	MJE5852G
TIP122G	MJE5852G
TIP127G	MJE5852G
TIP30CG	MJE5852G
TIP31AG	MJE5852G
TIP31BG	MJE5852G
TIP31CG	MJE5852G
TIP31G	MJE5852G
TIP32G	MJE5852G
TIP41AG	MJE5852G



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TIP41BG	MJE5852G
TIP41CG	MJE5852G
TIP42AG	MJE5852G
TIP42BG	MJE5852G
TIP42CG	MJE5852G
TIP42G	MJE5852G

Appendix A: Changed Products

DIKG: DIGI-KEY

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
MJE5850G		MJE5852G	NA	
MJE5852G		MJE5852G	NA	
D44H11G		MJE5852G	NA	
D44H8G		MJE5852G	NA	
D44VH10G		MJE5852G	NA	
D45H11G		MJE5852G	NA	
D45H8G		MJE5852G	NA	
D45VH10G		MJE5852G	NA	
TIP29AG		MJE5852G	NA	
TIP29BG		MJE5852G	NA	
TIP29CG		MJE5852G	NA	
BDX33BG		MJE5852G	NA	
MJE5851G		MJE5852G	NA	
BDX53BG		MJE5852G	NA	
BDX53CG		MJE5852G	NA	
BDX33CG		MJE5852G	NA	
MJE15028G		MJE5852G	NA	
BU406G		MJE5852G	NA	
MJE15030G		MJE5852G	NA	
MJE15029G		MJE5852G	NA	
MJE15032G		MJE5852G	NA	
MJE15031G		MJE5852G	NA	
MJE15035G		MJE5852G	NA	
MJE15033G		MJE5852G	NA	
MJE3055TG		MJE5852G	NA	
MJE2955TG		MJE5852G	NA	
MJE5730G		MJE5852G	NA	
MJE5731AG		MJE5852G	NA	
TIP102G		MJE5852G	NA	
MJE5731G		MJE5852G	NA	
TIP107G		MJE5852G	NA	
TIP111G		MJE5852G	NA	
TIP110G		MJE5852G	NA	
TIP115G		MJE5852G	NA	
TIP112G		MJE5852G	NA	
TIP116G		MJE5852G	NA	
TIP120G		MJE5852G	NA	
TIP117G		MJE5852G	NA	
TIP122G		MJE5852G	NA	
TIP121G		MJE5852G	NA	
TIP30CG		MJE5852G	NA	
TIP31AG		MJE5852G	NA	
TIP127G		MJE5852G	NA	
TIP31CG		MJE5852G	NA	
TIP31BG		MJE5852G	NA	
TIP31G		MJE5852G	NA	
TIP32G		MJE5852G	NA	
TIP41AG		MJE5852G	NA	
TIP41CG		MJE5852G	NA	
TIP41BG		MJE5852G	NA	
TIP42BG		MJE5852G	NA	
TIP42AG		MJE5852G	NA	
TIP42G		MJE5852G	NA	
TIP42CG		MJE5852G	NA	