



Final Product/Process Change Notification

Document #:FPCN24980X

Issue Date:30 Mar 2023

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| 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 |



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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 = 268°C, 10 sec | | 0 / 90 |
| SD | JSTD002 | Ta = 245°C, 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 |



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|-----------|----------|
| 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 |



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|-----------|----------|
| 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 |