To our customers,

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Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

Send any inquiries to http://www.renesas.com/inquiry.
RENESAS TECHNICAL UPDATE
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Renesas Technology Corp.

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Transistors</th>
<th>Document No.</th>
<th>Information Category</th>
<th>Change of Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>PCN of Marking for Power Transistors</td>
<td>TN-PTR-A001A/E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applicable Product</td>
<td>All of TO-3P, TO-3PFM, TO-220AB, TO-220FM, TO-220CFM, LDPAK, DPAK, LFPAK, LFPAK-i, WPAK and TSSOP-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lot No.</td>
<td>All</td>
<td>Reference Document</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Renesas Technology will change the marking of TO-3P, TO-3PFM, TO-220AB, TO-220FM, TO-220CFM, LDPAK, DPAK, LFPAK, LFPAK-i, WPAK and TSSOP-8. Except Automotive specification. New marking is already applied to Automotive parts.

1. Applicability
   TO-3P, TO-3PFM, TO-220AB, TO-220FM, TO-220CFM, LDPAK, DPAK, LFPAK, LFPAK-i, WPAK and TSSOP-8 packaged transistor.

2. Purpose
   Improvement of tracability

3. Schedule
   Production by new specification will strat from 2008/Apr.
   New and old specification may be shipped in disorder by condition of stock.

4. Characteristics
   There are no change for maximum ratings, characteristics, reliability, outline or etc.
5. Changing of Marking and Applied Products

5.1. Changing of Marking for TO-3P and TO-3PFM

[ Example for TO-3P (Note: The marking for TO-3PFM is same layout.) ]

5.2. Applied Products for TO-3P

TO-3P packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SB1032K, 2SB1079, 2SC3336, 2SC3365, 2SD1436K, 2SD1559, 2SD2256
2SJ160, 2SJ161, 2SJ162, 2SJ195, 2SJ217, 2SJ351, 2SJ352, 2SJ554, 2SJ555, 2SK1056, 2SK1057, 2SK1058, 2SK1161, 2SK1162, 2SK1165, 2SK1166, 2SK1167, 2SK1168, 2SK1169, 2SK1170, 2SK1298, 2SK1303, 2SK1304, 2SK1317, 2SK1339, 2SK1340, 2SK1341, 2SK1401A, 2SK1403A, 2SK1515, 2SK1516, 2SK1517, 2SK1518, 2SK1573, 2SK1669, 2SK1671, 2SK1773, 2SK1835, 2SK1933, 2SK1934, 2SK1968, 2SK2007, 2SK2220, 2SK2221, 2SK2554, 2SK2568, 2SK2586, 2SK2727, 2SK2728, 2SK2729, 2SK2730, 2SK2955, 2SK3151, 2SK3159, 2SK3163, 2SK3235, 2SK3419
RJK1529DPK, RJK2009DPK, RJK2508DPK, RJK2511DPK, RJK2916DPK, RJK3008DPK, RJK3016DPK, RJK4018DPK, RJK4514DPK, RJK4515DPK, RJK4518DPK, RJK5010DPK, RJK5013DPK, RJK5014DPK, RJK5015DPK, RJK5018DPK, RJK5020DPK, RJK6014DPK, RJK6015DPK, RJK6018DPK, RJK6020DPK
GN6060V5DP, GN6065V5DP
RJH6007DPK, RJP2557DPK, RJP3057DPK, RJP3067DPK, RJP4067DPK, RJP6006DPK, RJP6085DPK

5.3. Applied Products for TO-3PFM

TO-3PFM packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SC5480
2SJ16, 2SJ218, 2SK1328, 2SK1329, 2SK1405, 2SK1670, 2SK1775, 2SK1832, 2SK1859, 2SK2008, 2SK2225
H5N2301PF, H5N2305PF, H5N2306PF, H5N2509PF, H5N2803PF, RJK2009DPM, RJH6075DPM
5.4. Changing of Marking for TO-220AB and LDPAK

[Example for TO-220AB (Note: The marking for LDPAK is same layout.)]

5.5. Applied Products for TO-220AB

TO-220AB packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SB566K, 2SB566AK, 2SB727K, 2SB765K, 2SB791K, 2SB857, 2SB858, 2SB859, 2SB860, 2SB861, 2SB955K, 2SB1091, 2SB1103, 2SC1881K, 2SC2612, 2SC2613, 2SC2616, 2SC2979, 2SC4913, 2SD476K, 2SD476AK, 2SD768K, 2SD864K, 2SD970K, 2SD1126K, 2SD1133, 2SD1134, 2SD1135, 2SD1137, 2SD1138, 2SD1163A, 2SD1527, 2SJ76, 2SJ77, 2SJ78, 2SJ79, 2SJ117, 2SJ172, 2SJ173, 2SJ174, 2SJ221, 2SJ247, 2SJ292, 2SJ539, 2SJ540, 2SJ541, 2SJ542, 2SJ543, 2SJ544, 2SK213, 2SK214, 2SK215, 2SK216, 2SK970, 2SK971, 2SK972, 2SK1153, 2SK1154, 2SK1155, 2SK1156, 2SK1157, 2SK1158, 2SK1159, 2SK1160, 2SK1302, 2SK1338, 2SK1400A, 2SK1402A, 2SK1627, 2SK1667, 2SK1761, 2SK1807, 2SK2328, 2SK2408, 2SK2800, 2SK2927, 2SK2928, 2SK2929, 2SK2930, 2SK2931, 2SK2959, 2SK3069, 2SK3136, 2SK3141, 2SK3149, 2SK3154, 2SK3156, 2SK3158, 2SK3228, 2SK3418, 2SK3736, H7N0203AB, H7N0307AB, H7N0308AB, H7N0312AB, H7N0602AB, H7N0603AB, H7N0608AB, H7N1002AB, H7N1004AB, H8N0801AB, HS76654, HS76655, GN6030V4AB, RJP3054DPN, RJP3064DPN, RJP3065DPN, RJP6065DPN

5.6. Applied Products for LDPAK

LDPAK packaged transistor including special specification or custom parts that are not written on follow will be applied.

5.7. Changing of Marking for TO-220FM and TO-220CFM

[ Example for TO-220FM (Note: The marking for TO-220CFM is the same layout.) ]

5.8. Applied Products for TO-220FM

TO-220FM packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SB1262, 2SB1389, 2SB1390, 2SB1391, 2SB1392, 2SB1399, 2SB1400, 2SB1530, 2SC5022, 2SD1900, 2SD2101, 2SD2106, 2SD2337

2SJ175, 2SJ176, 2SJ177, 2SJ222, 2SJ248, 2SJ293, 2SJ294, 2SJ295, 2SJ350, 2SJ504, 2SJ526, 2SJ534, 2SJ535, 2SJ547,

2JSJ548, 2SK1093, 2SK1094, 2SK1095, 2SK1305, 2SK1306, 2SK1307, 2SK1318, 2SK1404, 2SK1566, 2SK1567, 2SK1572,

2SK1626, 2SK1637, 2SK1668, 2SK1762, 2SK1808, 2SK1957, 2SK2202, 2SK2937, 2SK3148, 2SK3152, 2SK3155, 2SK3157,

2SK3160, 2SK3162, 2SK3177, 2SK3209, 2SK3212, 2SK3308

H5N5001FM, H5N5006FM, H7N0608FM, H7N1004FM, H7N1005FM

5.9. Applied Products for TO-220CFM

TO-220CFM packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SJ471, 2SJ532, 2SJ533, 2SJ545, 2SJ546, 2SK2114, 2SK2424, 2SK2425, 2SK2529, 2SK2725, 2SK2726, 2SK2736, 2SK2737,

2SK2738, 2SK2932, 2SK2933, 2SK2934, 2SK2935, 2SK2936, 2SK2956, 2SK3140, 2SK3142, 2SK3229, 2SK3233, 2SK3234,

H5N2502CF, H5N2512CF, H5N3007CF, H7N0308CF, RJK1525DPS

GN6030V5CF, RJP3063DPP, RJP4065DPP
5.10. Changing of Marking for DPAK

[ Example for DPAK ]

Current marking

![Current marking diagram]

New marking

![New marking diagram]

5.11. Applied Products for DPAK

DPAK packaged transistor including special specification or custom parts that are not written on follow will be applied.

2SB1072L/S, 2SB1407L/S, 2SB1661S, 2SB1681S, 2SC4500L/S, 2SD2115L/S, 2SD2123L/S, 2SD2124L/S, 2SD2592S, 2SD2632S


5.12. Changing of Marking for LFPAK and LFPAK-i

[ Example for LFPAK (Note: The marking for LFPAK-i is same layout.) ]

Current marking

![Current marking diagram]

New marking

![New marking diagram]
5.13. Applied Products for LFPAK

LFPAK packaged transistor including special specification or custom parts that are not written on follow will be applied.
RJK0301DPB,RJK0302DPB,RJK0303DPB,RJK0304DPB,RJK0305DPB,RJK0328DPB,RJK0329DPB, RJK0330DPB, RJK0331DPB,RJK0332DPB,RJK0372DPB


LFPAK –i packaged transistor including special specification or custom parts that are not written on follow will be applied.
RJK0301DPC,RJK0302DPC,RJK0303DPC,RJK0304DPC,RJK0305DPC

5.15. Changing of Marking for WPAK

[ Example for WPAK ]

5.16. Applied Products for WPAK

WPAK packaged transistor including special specification or custom parts that are not written on follow will be applied.
HAT1101WP,HAT1107WP,HAT2087WP,HAT2089WP,HAT2183WP,HAT2184WP,HAT2185WP,HAT2187WP, HAT2188WP, HAT2189WP,HAT2191WP,HAT2192WP,HAT2193WP,HAT2195WP,HAT2197WP, HAT2198WP,HAT2199WP, HAT2200WP,HAT2201WP,HAT2209WP,HAT2210WP,HAT2211WP,HAT2244WP, HAT2285WP,HAT2287WP,HAT2299WP
RJK0316DPA,RJK0317DPA,RJK0346DPA,RJK0347DPA,RJK0348DPA,RJK0349DPA,RJK0350DPA, RJK0351DPA, RJK0353DPA,RJK0355DPA,RJK0356DPA,RJK0358DPA,RJK0359DPA,RJK0360DPA, RJK0364DPA,RJK0365DPA, RJK0366DPA,RJK0369DPA
5.15. Changing of Marking for TSSOP-8

[ Example for TSSOP-8 ]

Current marking

Part name indication

Work code

Index mark

New marking

Part name indication

Work code

Index mark

Tracability code

5.16. Applied Products for TSSOP-8

TSSOP-8 packaged transistor including special specification or custom parts that are not written on follow will be applied.

HAT1033T, HAT1041T, HAT1065T, HAT2050T, HAT2051T, HAT2080T, HAT2085T, HAT2105T, HAT3015T