# FOR USE BY ELECTRICIANS OVERSEAS:

**最新トランジスタ規格表** (New Transistor Manual) lists all the transistors registered with the Electronic Industries Association of Japan (EIAJ), arranged in a manner easy to look up. We hope that you will make full use of the data provided in this manual by referring to the Japanese-English translation key given below.

| 型　名 | 社　名 | 用　途 | 構造 | 最大定格（$T_a=25°C$） | | | | | 電気的特性（$T_a=25°C$） | | | | | | | | | | | | | | 外形 | 備考 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | $V_{CBO}$ | $V_{EBO}$ | $I_C$ | $P_C$ | $T_j$ | $I_{CBO}$最大値 | | 直流又はパルス$h_{FE}$ | | | バイアス | | $h_{fe}$ | $h_{ie}$<br>$h_{ib}$* | $h_{re}$<br>$h_{rb}$* | $h_{oe}$<br>$h_{ob}$* | $f_{ab}$<br>$f_T$* | $C_{ob}$ | $r_{bb'}$<br>$h_{ie}$(real)* | | |
| | | | | (V) | (V) | (mA) | (mW) | (°C) | (μA) | $V_{CB}$(V) | | $V_{CE}$(V) | $I_C$(mA) | $V_{CB}$(V) | $I_E$(mA) | $h_{fb}$* | (Ω) | (×$10^{-4}$) | ($\mu\mho$) | (Mc) | (pF) | (Ω) | | |
| 1 | 2 | 3 | 4 | 5 | | | | | 6 | | 7 | | | 8 | | | | | | 9 | 10 | | 11 | 12 |

**1** TYPE NUMBER

**2** ORIGINAL MANUFACTURER

**3** USES

**4** MATERIAL AND STRUCTURE

**5** MAXIMUM RATINGS

**6** $I_{CBO}$ MAXIMUM VALUE AND $V_{CB}$ VALUE (CRITERIA FOR MEASURING $I_{CBO}$)

**7** STANDARD VALUE OF DC/PULSE $h_{FE}$ AND $V_{CE}$, $I_C$ (CRITERIA FOR MEASURING DC/PULSE $h_{FE}$)

**8** STANDARD VALUE OF $h$ PARAMETERS AND BIAS $V_{CB}$, $I_E$ (CRITERIA FOR MEASURING $h$ PARAMETERS)

* INDICATES VALUE IN GROUNDED-BASE OPERATION, OTHERWISE VALUE IN EMITTER-GROUNDED OPERATION.

**9** $f_{ab}$ OF RF CHARACTERISTIC, EXCEPT IN CASE OF * WHICH INDICATES VALUE OF $f_T$.

**10** $C_{ob}$ AND $r_{bb'}$ OF RF CHARACTERISTICS EXCEPT IN CASE OF * IN $r_{bb'}$ COLUMN WHICH INDICATES VALUE OF $h_{ie}$ (real)

**11** OUTLINE

**12** REMARKS

：とコンプリ： COMPLEMENTARY TO ………

| | 型名 | 社名 | 用途 | 構造 | 最大定格 ($T_a$ = 25°C) | | | | | 電気的特性 ($T_a$ = 25°C) | | | | | | | | | | | | | | 外形 | 備考 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $V_{CBO}$ (V) | $V_{EBO}$ (V) | $I_C$ (mA) | $P_C$ (mW) | $T_j$ (°C) | $I_{CBO}$ 最大値 | | 直流又はパルス $h_{FE}$ | | | バイアス | | $h_{fe}$<br>$h_{fb}$* | $h_{ie}$<br>$h_{ib}$*<br>(Ω) | $h_{re}$<br>$h_{rb}$*<br>(×$10^{-4}$) | $h_{oe}$<br>$h_{ob}$*<br>(μ℧) | $f_{\alpha b}$<br>$f_T$*<br>(Mc) | $C_{ob}$<br>(pF) | $r_{bb'}$<br>$h_{ie}$(real)*<br>(Ω) | | |
| | | | | | | | | | | (μA) | $V_{CB}$(V) | | $V_{CE}$(V) | $I_C$(mA) | $V_{CB}$(V) | $I_E$(mA) | | | | | | | | | |
| | 2SC887 | 芝電 | SW | Si.TMe | 210 | 5 | 7 A | 50 W<br>($T_c$=25°C) | 150 | 50 | 30 | 35 | 5 | 1 A | | | | $t_r$< 2 μS, $t_f$< 3 μS<br>$t_{stg}$< 6 μS | | | | | | 102 | |
| | 〃 888 | 〃 | 〃 | 〃 | 150 | 5 | 7 A | 50 W<br>($T_c$=25°C) | 150 | 100 | 30 | 35 | 5 | 1 A | | | | $t_r$< 2 μS, $t_f$< 3 μS<br>$t_{stg}$< 6 μS | | | | | | 102 | |
| | 〃 889 | 三菱 | RF. AF. LN | Si. EP | 90 | 5 | 7 A | 50 W<br>($T_c$=25°C) | 150 | 100 | 30 | 35 | 5 | 1 A | | | | $t_r$< 2 μS, $t_f$< 3 μS<br>$t_{stg}$< 6 μS | | | | | | 102 | |
| | 〃 890 | 日電 | PA | Si. E | 40 | 3 | 400 | 750 | 175 | 1 | 20 | >20 | 10 | 100 | 10 | −50 | 40 | $P_o$=1.3W<br>($f$=500Mc, $P_i$=0.3W, $V_{cc}$=13.5V) | | | | | | 84C | |
| | 〃 891 | 〃 | 〃 | 〃 | 40 | 4 | 600 | 10.3W<br>($T_c$=25°C) | 175 | 5 | 20 | >15 | 10 | 500 | 10 | −100 | 40 | $P_o$= 4 W<br>($f$=500Mc, $P_i$= 1 W, $V_{cc}$=13.5V) | | | | | | 115 | |
| | 〃 892 | 〃 | 〃 | 〃 | 40 | 4 | 1.2 A | 17.7W<br>($T_c$=25°C) | 175 | 10 | 20 | | | | 10 | −300 | 40 | $P_o$= 8 W<br>($f$=500Mc, $P_i$= 1 W, $V_{cc}$=13.5V) | | | | | | 115 | |
| | 〃 893 | 富士通 | RF | Si. TMe | 100 | 6 | 500 | 12 W<br>($T_c$=25°C) | 175 | 1 | 30 | 100 | 4 | 50 | 4 | −50 | | | | | 20* | 10 | 30 | 97B | |
| ★ | 〃 894 | ソニー | RF. SW | Si. DB | 25 | 6 | 100 | 100 | 120 | 0.2 | 25 | 100 | 3 | 1 | 6 | −2 | | | | | 200* | 2.4 | $C_c r_{bb'}$<br>120pS | 38 | |
| | 〃 895 | 〃 | PA. SW | Si. TMe | 150 | 8 | 2.5 A | 23.7W<br>($T_c$=25°C) | 150 | 50 | 50 | 120 | 3 | 100 | 10 | −200 | | | | | 20* | 145 | 24 | 100 | |
| | 〃 896 | 日電 | RF | Si. E | 55 | 5 | 200 | 300 | 175 | 1 | 30 | | | | 10 | −5 | 70 | | | | 200* | 3.5 | 35* | 46C | |
| ★ | 〃 897 | 日立 | PA | Si. T | 150 | 6 | 7 A | 60 W<br>($T_c$=25°C) | 150 | 1 mA | 30 | 60 | 5 | 1 A | 5 | −1 A | | | | | 15* | 140 | | 102 | 2SA757<br>とコンプリ |
| ★ | 〃 898 | 〃 | 〃 | 〃 | 150 | 5 | 7 A | 80 W<br>($T_c$=25°C) | 150 | 1 mA | 30 | 50 | 5 | 1A | 5 | −1 A | | | | | 15* | 140 | | 102 | 2SA758<br>とコンプリ |
| ★ | 〃 899 | 日電 | RF. AF. LN | Si. E | 50 | 5 | 50 | 250 | 125 | 0.1 | 15 | 110 | 3 | 0.5 | 6 | −1 | 140 | 4000 | 0.65 | 8.5 | 250* | 1.8 | $C_c r_{bb'}$<br>70pS | 138 | |
| | 〃 900 | 〃 | RF. LN | 〃 | 30 | 5 | 30 | 250 | 125 | 0.1 | 25 | 400 | 3 | 0.5 | 6 | −1 | | | | | 100* | 3.5 | 50* | 138 | |
| | 〃 901 | 松下 | PA | Si. TMe | 200 | 6 | 5 A | 50 W<br>($T_c$=70°C) | 150 | 15mA | 150 | 25 | 4 | 5 A | 10 | −500 | | $t_r$< 3μS, $t_f$< 1μS<br>$t_{stg}$< 3 μS | | | 50* | | | 102 | |
| | 〃 901A | 〃 | 〃 | Si. EP | 250 | 6 | 5 A | 50 W<br>($T_c$=70°C) | 150 | 15mA | 150 | 25 | 4 | 5 A | 10 | −500 | | $t_r$< 3μS, $t_f$< 1μS<br>$t_{stg}$< 3 μS | | | 50* | | | 102 | |
| ★ | 〃 902 | 富士通 | SW | Si. TMe | 150 | 6 | 10 A | 75 W<br>($T_c$=25°C) | 175 | 15 | 30 | 50 | 4 | 5 A | | | | $t_r$< 2μS, $t_f$<1.5μS<br>$t_{stg}$<2.5μS | | | | | | 102 | |
| ★ | 〃 903 | 三菱 | PA | Si. EP | 35 | 4 | 300 | 200 | 125 | 1 | 25 | 100 | 2 | 150 | 6 | −10 | | | | | 150* | 10 | $C_c r_{bb'}$<br>100pS | 138B | |
| ★ | 〃 904 | 〃 | 〃 | 〃 | 50 | 4 | 300 | 200 | 125 | 1 | 25 | 100 | 2 | 150 | 6 | −10 | | | | | 150* | 10 | | 138B | |
| ★ | 〃 905 | 〃 | 〃 | 〃 | 65 | 4 | 300 | 200 | 125 | 1 | 25 | 80 | 2 | 150 | 6 | −10 | | | | | 150* | 10 | | 138B | |
| | 〃 906 | 富士通 | PA. SW | 〃 | 50 | 7 | 500 | 600 | 175 | 0.5 | 12 | 160 | 4 | 10 | 6 | −1 | | $t_r$<0.08μS, $t_f$<0.15μS<br>$t_{stg}$<0.8μS | | | 70* | | | 89 | |
| ★ | 〃 907 | 日立 | RF. SW. AF | Si. DB | 40 | 5 | 100 | 200 | 175 | 0.5 | 20 | 200 | 1 | 10 | 6 | −1 | | 4000 | 2 | 10 | 240* | 1.7 | 150 | 12A | |
| ★ | 〃 907A | 〃 | 〃 | 〃 | 60 | 5 | 100 | 200 | 175 | 0.5 | 20 | 120 | 1 | 10 | 6 | −1 | | 4000 | 2 | 10 | 240* | 1.7 | 150 | 12A | |
| | 〃 908 | 三菱 | PA | Si. EP | 40 | 4 | 500 | 860 | 175 | 50 | 15 | 50 | 10 | 100 | | | | $P_c$=1.2W<br>($f$=500Mc, $V_{CC}$=13.5V, $P_i$=0.4W) | | | | | | 84B | |
| ★ | 〃 909 | 〃 | 〃 | 〃 | 40 | 4 | 500 | 7 W<br>($T_c$=25°C) | 200 | 50 | 15 | 50 | 10 | 100 | | | | $P_o$=3.5W<br>($f$=500Mc, $P_i$= 1 W, $V_{CC}$=13.5V) | | | | | | 113 | |
| ★ | 〃 910 | 〃 | 〃 | 〃 | 40 | 3 | 1 A | 10 W<br>($T_c$=25°C) | 200 | 100 | 15 | | | | 10 | −100 | 50 | PG= 5 dB<br>($f$=500Mc, $P_i$= 2 W, $V_{CE}$=13.5V) | | | | | | 113 | |
| | 〃 911 | 〃 | 〃 | 〃 | 40 | 4 | 500 | 1.7W | 175 | 50 | 15 | 50 | 10 | 100 | | | | $P_o$=1.4 W<br>($f$=500 MHz, $V_{cc}$=13.5V, $P_i$=0.3W) | | | | | | 271 | |
| | 〃 912 | 〃 | RF. Conv. Mix<br>Osc. SW | 〃 | 30 | 5 | 100 | 150 | 150 | 0.1 | 25 | 90 | 6 | 10 | 6 | −1 | 80 | 2500 | 0.35 | 15 | 150* | 2.5 | $C_c r_{bb'}$<br>100pS | 8 A | |
| | 〃 913 | 富士通, 沖<br>日電 | SW | 〃 | 40 | 5 | 300 | 300 | 175 | 0.2 | 20 | 70 | 1 | 30 | | $t_{on}$<45nS, $t_{off}$<42nS<br>$t_{stg}$<27nS | | | | | | 2.5 | | 49C | |
| | 〃 914 | 〃 | 〃 | 〃 | 40 | 5 | 300 | 300 | 175 | 0.2 | 20 | 70 | 1 | 30 | | $t_{on}$<80nS, $t_{off}$<86nS<br>$t_{stg}$<65nS | | | | | | 2.5 | | 49C | |