

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.

| | | | | | | | | | | | | |
|---|---|---|---|---------------------------------|------------------|---------------|--------------------------------------|-----------------------------------|-------------|----|----|------------|
| 1 | 2 | 3 | 4 | 最大定格 ($T_a=25^\circ\text{C}$) | | | 電 氣 的 特 性 ($T_a=25^\circ\text{C}$) | | | 11 | 12 | |
| | | | | V_{ce0} (V) | I_{c0} (mA) | P_c (mW) | T_j ($^\circ\text{C}$) | I_{c0} 最大値 (μA) | $V_{ce(N)}$ | | | $I_{c(N)}$ |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

- 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 $f_{\alpha b}$ 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 _{CB0} (V) | V _{EB0} (V) | I _C (mA) | P _C (mW) | T _J (°C) | I _{CB0} 最大値 (μA) | V _{CB} (V) | 直流又はパルス hFE | V _{CE} (V) | I _C (mA) | I _B (mA) | h _{FE} * | h _{ie} * (Ω) | h _{re} * (×10 ⁻⁴) | | | h _{oe} * (μS) |
| ★ 2SC739 | 三菱 | RF.Conv. Mix.Osc | Si.EP | 25 | 4 | 20 | 150 | 125 | 1 | 12 | 6 | -1 | 60 | | | | 350 | 1.5 | C _e r _{bb'} 30pS | 138B |
| ★ " 740 | " | " | " | 25 | 2 | 20 | 150 | 150 | 0.5 | 10 | 10 | -10 | 40 | | | | 900 | 1.4 | C _e r _{bb'} 5pS | 11A |
| ★ " 741 | " | PA | " | 40 | 4 | 300 | 2.5W (T _a =25°C) | 175 | 1 | 15 | 10 | 100 | 50 | | | | 400 | 8 | | 84B |
| ★ " 742 | 富士通 | " | " | 65 | 4 | 1.5A | 12.5W (T _a =25°C) | 175 | 5 | 30 | 10 | -150 | 30 | | | | 350 | 16 | | 111 |
| ★ " 743 | " | " | " | 65 | 4 | 3A | 25W (T _a =25°C) | 175 | 10 | 30 | 10 | -300 | 30 | | | | | | | 111 |
| ★ " 744 | " | " | " | | | | | | | | | | | | | | | | | |
| ★ " 745 | 富士通 | PA | Si.EP | 50 | 4 | 1.5A | 12.5W (T _a =25°C) | 175 | 10 | 10 | 10 | -150 | 45 | | | | 450 | 8 | | 111 |
| ★ " 746 | " | " | " | 45 | 4 | 3A | 25W (T _a =25°C) | 175 | 20 | 10 | 10 | -300 | 35 | | | | 350 | 20 | | 111 |
| ★ " 747 | " | " | " | | | | | | | | | | | | | | | | | |
| ★ " 748 | 富士通 | PA | Si.EP | 36 | 4 | 1A | 12.5W (T _a =25°C) | 175 | 10 | 10 | 10 | -150 | 25 | | | | 400 | 16 | | 111 |
| ★ " 749 | " | " | " | 36 | 4 | 2A | 25W (T _a =25°C) | 175 | 25 | 10 | 10 | -300 | 25 | | | | 350 | 32 | | 111 |
| ★ " 750 | " | " | " | | | | | | | | | | | | | | | | | |
| ★ " 751 | 東芝 | RF | Si.EP | 20 | 2 | 20 | 100 | 150 | 1 | 10 | 10 | -8 | 50 | | | | 650 | 1.9 | | 46C |
| ★ " 752 | " | SW | Si.E | 40 | 5 | 200 | 400 | 125 | 0.1 | 40 | 10 | -10 | | | | | 400 | 4 | | 138 |
| ★ " 753 | 日電 | RF.Conv. Osc.Mix | " | 25 | | 20 | 100 | 150 | 1 | 12 | 6 | -2 | 70 | | | | 1100 | 0.7 | C _e r _{bb'} 12pS | 23 |
| ★ " 754 | " | RF.AF | " | 20 | | 150 | 150 | 150 | 1 | 20 | 10 | -1 | 80 | | | | 90 | 6.5 | | 23 |
| ★ " 755 | " | RF | " | 15 | | 100 | 150 | 150 | 0.1 | 15 | 3 | -0.5 | 300 | | | | 100 | 8 | | 23 |
| ★ " 756 | ソニー | PA | " | 100 | 6 | 4A | 10W (T _a =25°C) | 175 | 3 | 50 | 10 | -50 | 60 | | | | 65 | 35 | C _e r _{bb'} 50pS | 181 |
| ★ " 757 | 日電 | RF.Conv. Osc | " | 30 | | 20 | 100 | 150 | 1 | 12 | 6 | -2 | 70 | | | | 1100 | 0.7 | C _e r _{bb'} 10pS | 23 |
| ★ " 758 | 芝電 | PA | Si.TMe | 280 | 5 | 8A | 60W (T _a =25°C) | 150 | 10 | 30 | 5 | -0.5A | 35 | | | | 18 | 275 | | 102 |
| ★ " 759 | " | " | " | 180 | 5 | 8A | 60W (T _a =25°C) | 150 | 10 | 30 | 5 | -0.5A | 35 | | | | 18 | 275 | | 102 |
| ★ " 760 | " | " | " | 100 | 5 | 8A | 60W (T _a =25°C) | 150 | 100 | 30 | 5 | -0.5A | 35 | | | | 18 | 275 | | 102 |
| ★ " 761 | 松下 | RF.Conv. Mix.Osc | Si.P | 30 | 3 | 20 | 150 | 175 | 100 | 30 | 10 | -2 | 40 | | | | 675 | 0.28 | C _e r _{bb'} 60 | 50C AGC |
| ★ " 762 | " | " | " | 30 | 3 | 20 | 150 | 175 | 100 | 30 | 10 | -2 | 40 | | | | 600 | 0.28 | C _e r _{bb'} 60 | 50C AGC |
| ★ " 763 | 三菱 | " | Si.EP | 25 | 3 | 20 | 100 | 125 | 0.5 | 12 | 6 | -1 | | | | | 470 | 1.4 | C _e r _{bb'} 15pS | 138B |
| ★ " 764 | 日電 | SW | Si.E | 40 | 5 | 200 | 360 | 200 | 0.1 | 20 | 10 | -10 | 80 | | | | 750 | 2 | C _e r _{bb'} 25pS | 49C |
| ★ " 765 | 三菱 | PA | Si.TMe | 60 | | 2A | 30W (T _a =25°C) | 150 | 1mA | 30 | 4 | 1A | 60 | | | | | | | 102 |
| ★ " 766 | " | " | " | 120 | | 2A | 30W (T _a =25°C) | 150 | 1mA | 30 | 4 | 1A | 60 | | | | | | | 102 |
| ★ " 767 | " | " | " | 180 | | 2A | 30W (T _a =25°C) | 150 | 1mA | 30 | 4 | 1A | 60 | | | | | | | 102 |
| ★ " 768 | " | PA.SW | " | 60 | 5 | 10A | 50W (T _a =25°C) | 150 | 1mA | 30 | 4 | 2A | 25 | | | | | | | 102 |

F₀ = 0.3W
(f = 150Mc, V_{CC} = 13.5V, P_{in} = 10mW)

t_{on} < 12nS, t_{off} < 18nS
t_{rise} < 13nS

F₀ = 20W
(f = 27MHz, V_{CC} = 25V, P_i = 3W)

F₀ = 19W
(f = 27MHz, V_{CC} = 35V, P_i = 2W)

F₀ = 19W
(f = 27MHz, V_{CC} = 35V, P_i = 2W)

t_r < 3μS, t_f < 1μS
t_{rise} < 2μS

PG = 8dB
(f = 900Mc)