

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 _b =25°C)					電 気 的 特 性 (T _b =25°C)										外 形	備 考
				V _{ceo} (V)	V _{ceo} (V)	I _c (mA)	P _c (mW)	T _j (°C)	I _{ceo} 最大値 (μA)	直流又はパルスI _{BE}		バイアス		h _{FE}	h _{ie} h _{ie} * (Ω)	h _{re} h _{re} * (×10 ⁻⁴)	h _{oe} h _{oe} * (μS)	f _{αb} f _r * (Mc)		
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_{αb} OF RF CHARACTERISTIC, EXCEPT IN CASE OF * WHICH INDICATES VALUE OF f_r.
- 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 _{CE0} (V)	V _{EB0} (V)	I _C (mA)	P _C (mW)	T _J (°C)	I _{CB} 最大値		直流又はパルス hFE			バイアス		h _{fe}	h _{ie} h _{ib} * (Ω)	h _{re} h _{rb} * (×10 ⁻⁴)	h _{oe} h _{ob} * (μΩ)			f _{sub} f _T * (Mc)	C _{ob} (pF)	r _{ab} h _{ie(reat)} * (Ω)
									I _{CB} (μA)	V _{CB} (V)	V _{CE} (V)	I _C (mA)	V _{CB} (V)	I _E (mA)	h _{fb} *									
* 2SA138	富士通	SW	Ge. A	-20	-10	-25	80	85	-5	-20	70	-1	-10	-6	1				15	10	150	12A		
* # 139	"	RF. IF	"	-20	-10	-50	80	85	-5	-20	70	-1	-50	-6	1	-0.985*	29*	0.4*	8	12	150	12A		
* # 141	三菱	IF	"	-15	-1.5	-15	80	85	-5	-12								4	12	60	12A	TJ 41		
* # 142	"	Conv	"	-15	-1.5	-15	80	85	-5	-12								8	12	60	12A	TJ 42		
* # 143	"	RF. Conv	"	-15	-1.5	-15	80	85	-5	-12								15	12	60	12A	TJ 43		
* # 144	松下	RF. IF. Conv Mix. Osc	"	-15	-10	-10	80	75	-10	-10								15	10.5	110	12B	OC 44		
* # 145	"	"	"	-15	-10	-10	80	75	-10	-10								6	10.5	75	12B	OC 45		
* # 146	三菱	IF	Ge. D	-20	-0.5	-10	60	85	-15	-12								20	2.5	40	13B	TJ 46		
* # 147	"	Conv. Mix	"	-20	-0.5	-10	60	85	-15	-12								30	2.5	40	13B	TJ 47		
* # 148	"	Conv	"	-20	-0.5	-10	60	85	-15	-12								40	2.5	45	13B	TJ 48		
* # 149	"	RF	"	-20	-0.5	-10	60	85	-15	-12								50	2.5	50	13B	TJ 49		
* # 151	日立	IF	Ge. A	-9	-0.5	-15	80	85	-5	-6								6	13.5	90	12A			
* # 152	"	Conv	"	-9	-0.5	-15	80	85	-5	-6								10	13.5	110	12A			
* # 153	日電	Mix	Ge. GD	-15	-0.5	-4	20	65	-5	-9								60	1.3		19A	2S153 ST27B		
* # 154	"	IF	"	-15	-0.5	-4	20	65	-5	-9								50	1.5		19A	2S154 ST28A		
* # 155	"	"	"	-15	-0.5	-4	20	65	-5	-9								55	1.5		19A	2S155 ST28B		
* # 156	"	"	"	-15	-0.5	-4	20	65	-5	-9								55	1.5		19A	2S156 ST28C		
* # 157	"	Osc	"	-15	-0.5	-4	20	65	-5	-9								65	1.5		19A	2S157 ST29		
* # 159	"	Conv	Ge. GD	-15	-0.5	-4	20	65	-5	-9								55	1.5		19A	2S159 ST37E		
* # 160	"	"	"	-15	-0.5	-4	20	65	-5	-9								55	1.5		19A	2S160		
* # 161	ソニー	RF	Ge. Me	-20		-15	50	85	-5	-15								400*	1.2	80	51			
* # 162	"	"	"	-20		-15	50	85	-5	-15								400*	1.2	80	51			
* # 163	"	"	"	-20		-15	50	85	-5	-15								400*	1.2	80	51			
* # 164	"	Osc	"	-20		-15	50	85	-5	-15								400*	1.2	80	51			
* # 165	"	"	"	-20		-15	50	85	-5	-15	24	-3	-1	-6	2			450*	1.7	80	51			
* # 166	"	"	"	-20		-15	50	85	-5	-15								400*	1.2	80	51			
* # 167	日電	RF	Ge. A	-20	-10	-50	125	75	-8	-20								9	15	120	84A	2S167 ST20A		
* # 168	"	"	"	-20	-10	-50	175	75	-8	-20								9	15	120	91	2S168 ST20AR		
* # 168A	"	"	"	-20	-10	-50	175	75	-8	-20								9	15	120	91			
* # 169	"	SW	"	-20	-10	-50	125	75	-8	-20	70	-1	-10	-6	1			15	11	250	84A	2S169 ST20E		