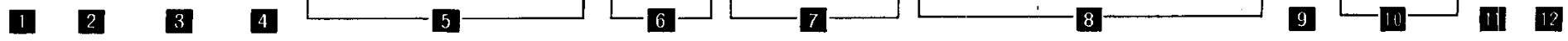


FOR USE BY ELECTRICIANS OVERSEAS :

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 (Ta=25°C)					電 氣 的 特 性 (Ta=25°C)										外 形	備 考
				V _{CEO} (V)	V _{ESD} (V)	I _C (mA)	P _C (mW)	T _J (°C)	I _{CEO} 最大値 (μA)	V _{CE} (V)	直 流 又 は パ ル ス h _{FE}		バ イ ア ス		h _{FE}	h _{ie}	h _{ie} *	h _{FE} *		



- 1** TYPE NUMBER
- 2** ORIGINAL MANUFACTURER
- 3** USES
- 4** MATERIAL AND STRUCTURE
- 5** MAXIMUM RATINGS
- 6** I_{CEO} MAXIMUM VALUE AND V_{CE} VALUE (CRITERIA FOR MEASURING I_{CEO})
- 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_{CE}, 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_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 ($T_a = 25^\circ\text{C}$)					電 氣 的 特 性 ($T_a = 25^\circ\text{C}$)										外 形	備 考				
				V_{CB0} (V)	V_{EB0} (V)	I_C (mA)	P_C (mW)	T_j ($^\circ\text{C}$)	I_{CB0} 最大值		直流又はパルス h_{FE}		バイアス		h_{fe} h_{fb}^*	$\frac{h_{ie}}{h_{ib}^*}$ (Ω)	$\frac{h_{re}}{h_{rb}^*}$ ($\times 10^{-4}$)	$\frac{h_{oe}}{h_{ob}^*}$ (μU)			$\frac{f_{ab}}{f_T^*}$ (Mc)	C_{ob} (pF)	$\frac{r_{bb}}{h_{ie}(\text{real})^*}$ (Ω)	
									I_{CB0} (μA)	$V_{CB(V)}$	$V_{CE(V)}$	$I_C(\text{mA})$	$V_{CB(V)}$	$I_E(\text{mA})$										
★ 2SA331	三洋	Conv	Ge. D	-40	-1.5	-50	120	75	-15	-15			-6	1	30-300					>40	2-5	50	12B	
" 332	"	"	"	-20	-0.5	-10	50	75	-20	-9			-6	1	110					60	3	150	13B	
" 333	"	Osc	"	-20	-0.5	-10	50	75	-20	-9			-6	1	30					55	3	150	13B	
" 334	"	Mix	"	-20	-0.5	-10	50	75	-20	-9			-6	1	30					65	3	150	13B	
★ " 336	日立	IF	"	-9	-0.5	-10	80	85	-15	-9			-3	1	70	PG = 38 dB ($f = 455 \text{ kc}$)				30	2.6	40	13A	
★ " 337	"	Conv	"	-9	-0.5	-10	80	85	-15	-9			-3	1	70	CG = 36 dB ($f = 1.5 \text{ Mc}$)				35	2.6	40	13A	
★ " 338	松下	RF. IF. Conv Mix. Osc	"	-20	-0.5	-5	50	75	-16	-10			-6	1	30					15	2.5	15	4	
★ " 339	"	"	"	-20	-0.5	-5	50	75	-16	-10			-6	1	50					30	2.5	20	4	
★ " 340	"	RF. Conv Mix. Osc	Ge. AD	-20	-0.5	-10	63	75	-13	-6			-6	1	100					70	2	50	50C	
★ " 341	"	"	"	-20	-0.5	-10	63	75	-13	-6			-6	1	100					70	2	50	50C	
★ " 342	"	"	"	-20	-0.5	-10	63	75	-13	-6			-6	1	100					100	2	40	50C	
★ " 343	"	RF. Conv. Mix Osc. PA	"	-20	-0.4	-5	86	75	-12	-10			-6	1	100	PG = 18 dB ($f = 100 \text{ Mc}$)				100*	1.5	50	72B	
★ " 344	"	"	"	-30	-0.5	-30	120	75	-6	-6			-2	10	200					100	4	35	13B	
★ " 345	三菱	RF	Ge. Me	-20	-0.5	-10	60	85	-30				-6	1	30	PG = 18dB ($f = 200 \text{ Mc}$)				>250*	1.2	<100	48C	
★ " 346	"	"	"	-20	-0.5	-10	60	85	-30				-6	1	30	PG = 20dB ($f = 200 \text{ Mc}$)				>250*	1.2	<100	48C	
★ " 347	"	"	"	-20	-0.5	-10	60	85	-30				-6	1	30	PG = 21dB ($f = 200 \text{ Mc}$)				>250*	1.2	<100	48C	
★ " 348	"	"	"	-20	-0.5	-10	60	85	-30				-6	1	10	PG = 15dB ($f = 100 \text{ Mc}$)				>200*	1.5	<120	48C	
★ " 349	"	"	"	-20	-0.5	-10	60	85	-30				-6	1	10	PG = 15dB ($f = 50 \text{ Mc}$)				>100*	1.5	<120	48C	
★ " 350	日立	RF. Conv Mix. Osc	Ge. D	-20	-0.5	-10	80	85	-10	-12			-9	1	90	PG = 14 dB ($f = 20 \text{ Mc}$)				40	2.5	30*	12A	
★ " 351	"	RF. Osc	"	-20	-0.5	-10	80	85	-10	-12			-9	1	70	PG = 11dB ($f = 12 \text{ Mc}$)				40	2.5	30*	12A	
★ " 352	"	RF. Conv Mix	"	-20	-0.5	-10	80	85	-10	-12			-9	1	75	CG = 22.5dB ($f = 12 \text{ Mc}$)				40	2.5	30*	12A	
★ " 353	"	RF	"	-25	-0.5	-10	80	85	-10	-12			-9	1	70	PG = 39 dB ($f = 455 \text{ kc}$)				30	2.5	30*	12A	
★ " 354	"	Conv. Mix	"	-25	-0.5	-10	80	85	-10	-12			-9	1	70	CG = 40 dB ($f = 1 \text{ Mc}$)				30	2.5	30*	12A	
★ " 355	"	RF	"	-25	-0.5	-10	80	85	-10	-12			-9	1	70	PG = 33 dB ($f = 1.5 \text{ Mc}$)				30	2.5	30*	12A	
★ " 356	"	"	"	-9	-0.5	-10	80	85	-15	-9			-3	1	80	PG = 40 dB ($f = 455 \text{ kc}$)				25	2.8	30	12A	
★ " 357	"	Conv. Mix	"	-9	-0.5	-10	80	85	-15	-9			-3	1	70	CG = 40 dB ($f = 1.5 \text{ Mc}$)				30	1.8	30	12A	
★ " 358	"	RF	"	-75	-1	-50	225 (放熱板付)	85	-12	-12			-9	1	90					40	2.5	35*	64	
★ " 359	三洋	"	Ge. Me	-20	-0.4	-20	270	85	-15	-20			-6	5	30					300*	3.5	75	84B	
★ " 360	三菱	"	Ge. DB	-20	-0.5	-10	80	85	-30	-20			-6	1	70					110	2.3	85	13A	
★ " 361	"	RF. Conv Mix. Osc	"	-20	-0.5	-10	80	85	-30	-20			-6	1	70					125	2.3	80	13A	