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# 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 <sub>b</sub> =25°C)					電気的特性 (T <sub>b</sub> =25°C)										外形	備考
				V <sub>ceo</sub> (V)	V <sub>ceo</sub> (V)	I <sub>c</sub> (mA)	P <sub>c</sub> (mW)	T <sub>j</sub> (°C)	I <sub>ceo</sub> 最大値 (μA)	直流又はパルスI <sub>BE</sub>		バイアス		h <sub>FE</sub>	h <sub>ie</sub> h <sub>ie</sub> * (Ω)	h <sub>re</sub> h <sub>re</sub> * (×10 <sup>-4</sup> )	h <sub>oe</sub> h <sub>oe</sub> * (μS)	f <sub>αb</sub> f <sub>r</sub> * (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<sub>CBO</sub> MAXIMUM VALUE AND V<sub>CB</sub> VALUE (CRITERIA FOR MEASURING I<sub>CBO</sub>)
- 7 STANDARD VALUE OF DC/PULSE h<sub>FE</sub> AND V<sub>CE</sub>, I<sub>C</sub> (CRITERIA FOR MEASURING DC/PULSE h<sub>FE</sub>)
- 8 STANDARD VALUE OF h PARAMETERS AND BIAS V<sub>CB</sub>, I<sub>E</sub> (CRITERIA FOR MEASURING h PARAMETERS)

- \* INDICATES VALUE IN GROUNDED-BASE OPERATION, OTHERWISE VALUE IN EMITTER-GROUNDED OPERATION.
  - 9 f<sub>αb</sub> OF RF CHARACTERISTIC, EXCEPT IN CASE OF \* WHICH INDICATES VALUE OF f<sub>r</sub>.
  - 10 C<sub>ob</sub> AND r<sub>bb'</sub> OF RF CHARACTERISTICS EXCEPT IN CASE OF \* IN r<sub>bb'</sub> COLUMN WHICH INDICATES VALUE OF h<sub>ie</sub> (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 気 的 特 性 ( $T_a = 25^\circ\text{C}$ )										外形	備考				
				$V_{CE0}$ (V)	$V_{EBO}$ (V)	$I_C$ (mA)	$P_C$ (mW)	$T_j$ ( $^\circ\text{C}$ )	$I_{CBO}$ 最大値		直流又はパルス $h_{FE}$		バイアス		$h_{fe}$	$h_{fe}^*$	$h_{ie}$ ( $\Omega$ )	$h_{re}$ ( $\times 10^{-4}$ )			$h_{oe}$ ( $\mu\text{U}$ )	$f_{\beta}$ (Mc)	$C_{ob}$ (pF)	$r_{bb}$ $h_{ie}(\text{real})^*$ ( $\Omega$ )
									( $\mu\text{A}$ )	$V_{CB}(V)$	$V_{CE}(V)$	$I_C(\text{mA})$	$V_{CB}(V)$	$I_E(\text{mA})$										
★ 2SB541	日電	PA	Si.TMe	-110	-6	-8A	80W ( $T_c=25^\circ\text{C}$ )	150	-100	-100	80	-5	-1A	-10	200					7 *	320	102	2SD388 とコンパリ	
★ # 542	三菱	"	Si.EP	-20	-5	-300	300	125	-1	-20	150	-2	-150	-6	10					150 *		138B	2SD392 とコンパリ	
★ # 543																								
★ # 544	三洋	PA	Si.EP	-25	-5	-1A	900	150	-1	-20	60-560	-2	-50	-10	50					180 *	25	294	2SD400 とコンパリ	
★ # 545																								
★ # 546	日電	PA	Si.TMe	-200	-5	-2A	20W ( $T_c=25^\circ\text{C}$ )	150	-50	-150	90	-10	-400									268	2SD401 とコンパリ	
★ # 547	"	"	"	-200	-5	-2A	20W ( $T_c=25^\circ\text{C}$ )	150	-50	-150	90	-10	-400									267	2SD402 とコンパリ	
# 548	"	"	Si.E	-100	-5	-800	10W ( $T_c=25^\circ\text{C}$ )	150	-1	-80	90	-5	-200	-5	100					70 *	25	225	2SD414 とコンパリ	
# 549	"	"	"	-100	-5	-800	10W ( $T_c=25^\circ\text{C}$ )	150	-1	-80	90	-5	-200	-5	100					70 *	25	225	2SD415 とコンパリ	
# 550	"	PA.SW	Si.EMe	-100	-10	-5A	25W ( $T_c=25^\circ\text{C}$ )	150	-100	-80	80	-5	-1A	-10	100					10 *		134		
# 551	日立	PA	Si.T	-50	-4	-3A	25W ( $T_c=25^\circ\text{C}$ )	150	-100	-20	35-200	-4	-1A	-4	500					32 *		153	2SD830 とコンパリ	
# 552	東芝	PA	Si.TMe	-220	-5	-15A	150W ( $T_c=25^\circ\text{C}$ )	150	-100	-150	25-80	-5	-5A	-10	1A					3.5 *	300	102	2SD552 とコンパリ	
# 553	"	SW.PA	Si.T	-70	-5	-7A	40W ( $T_c=25^\circ\text{C}$ )	150	-30	-70	70-240	-1	-1A	-4	1A	$t_{on}=0.2\mu\text{S}, t_{off}=0.5\mu\text{S}$ $t_{on}=2.5\mu\text{S}$			10 *	250	268	2SD553 とコンパリ		
# 554	"	PA	Si.TMe	-180	-5	-15A	150W ( $T_c=25^\circ\text{C}$ )	150	-100	-90	40-140	-5	-2A	-5	2A					6 *	450	102	2SD424 とコンパリ	
# 555	"	"	"	-140	-5	-12A	100W ( $T_c=25^\circ\text{C}$ )	150	-100	-60	40-140	-5	-2A	-5	2A					6 *	330	102	2SD425 とコンパリ	
★ # 556	"	"	"	-120	-5	-12A	100W ( $T_c=25^\circ\text{C}$ )	150	-100	-60	40-140	-5	-2A	-5	2A					6 *	330	102	2SD426 とコンパリ	
# 557	"	"	"	-120	-5	-8A	80W ( $T_c=25^\circ\text{C}$ )	150	-100	-60	40-140	-5	-1A	-5	1A					7 *	280	102		
# 558	"	"	"	-100	-5	-7A	60W ( $T_c=25^\circ\text{C}$ )	150	-100	-50	40-140	-5	-1A	-5	1A					7 *	220	102	2SD428 とコンパリ	
★ # 559	三洋	"	Si.EP	-20	-5	-1.2A	8W ( $T_c=25^\circ\text{C}$ )	150	-1	-15	60-320	-2	-500	-10	50					150 *	30	296	2SD439 とコンパリ	
★ # 560	"	"	"	-100	-5	-700	900	150	-1	-20	60-560	-5	-50	-10	50					100 *	15	294	2SD467 とコンパリ	
# 561	日立	"	Si.E	-25	-5	-700	500	150	-1	-20	85-240	-1	-150	-1	150					350 *	20	138	2SD438 とコンパリ	
# 562	"	"	"	-25	-5	-1A	900	150	-1	-20	85-240	-2	-500	-2	500					350 *	28	251	2SD468 とコンパリ	
# 563	日電	PA.SW	Si.EMe	-80	-5	-3A	25W ( $T_c=25^\circ\text{C}$ )	150	-100	-70	70	-2	-1A			$t_{on}=0.4\mu\text{S}, t_{off}=1.2\mu\text{S}$ $t_{on}=0.8\mu\text{S}$						134	2SD297 とコンパリ	
# 564	"	PA	Si.E	-30	-5	-1A	800	150	-0.1	-30	200	-1	-100	-6	10					110 *	36	278		
★ # 565	日立	"	Si.T	-50	-4	-4A	40W ( $T_c=25^\circ\text{C}$ )	150	-100	-20	100	-4	-1A									267		
# 566	"	"	"	-70	-5	-4A	40W ( $T_c=25^\circ\text{C}$ )	150	-1	-20	60-320	-4	-1A	-4	500					15 *		268	2SD476 とコンパリ	
★ # 567	"	"	"	-200	-6	-2A	30W ( $T_c=25^\circ\text{C}$ )	150	-1	-120	150	-4	-50									267		
# 568	"	"	"	-200	-6	-2A	30W ( $T_c=25^\circ\text{C}$ )	150	-1	-120	60-320	-4	-50								30	268	3D478 とコンパリ	
# 569	モトローラ	"	Si.E	-40	-5	-4A	40W ( $T_c=25^\circ\text{C}$ )	150	-500	-40	6000	-3	-2A									252	2SD479 とコンパリ	
# 570	"	"	"	-60	-5	-4A	40W ( $T_c=25^\circ\text{C}$ )	150	-500	-60	6000	-3	-2A									252	2SD480 とコンパリ	