

Large-signal Transistors

(For high-frequency, high-voltage and general purpose use)

We have other large-signal transistors which were not included in any classified types nor packages in this document. They are for high frequency, high voltage and general purpose use, and are shown below.

✧ High-frequency transistors $T_a=25^\circ\text{C}$ For PNP (-) sign is omitted.

Type No.	Package	Main use	Absolute Maximum Ratings/ $T_a=25^{\circ}\text{C}$				Electrical Characteristics/ $T_a=25^{\circ}\text{C}$									
			V_{CB0} (V)	V_{CEO} (V)	I_C (A)	P_C (W)	V_{CE} (V)	I_C (A)	h_{FE}		V_{CE} (V)	I_C (A)	f_T typ (MHz)	I_C (A)	I_B	$V_{CE(sat)}$ typ (V)
									min	max						
2SC2078	TO-220	27MHz HF power amp	80	45	3	*10	5	0.5	25 ~ 200	10	0.1	150	1	0.1	0.15	0.6

✧ High-voltage transistors

Type No.	Package	Main use	V_{CB0}	V_{CEO}	I_C	P_C	V_{CE}	I_C	h_{FE}	V_{CE}	I_C	f_T	I_C	I_B	$V_{CE(sat)}$	Related Type No. (TO-220MF)
2SC4572	TO-220	High voltage amp	800	800	20m	1.75	5	2m	20 ~ 50	10	2m	40	10m	2m	1	2SC4493
2SC4578		High voltage switching	1700	900	50m	1.75	5	2m	20 ~ 120	10	2m	6	5m	1m	5	2SC4030
2SC4579			2000	900	20m	1.75	5	1m	20 ~ 120	10	1m	6	2m	0.4m	5	2SC4031

In addition to these, TO-220MFs are available. see the table.

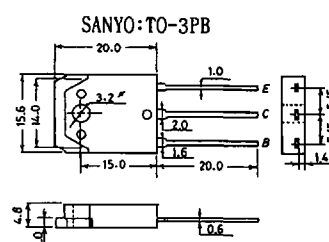
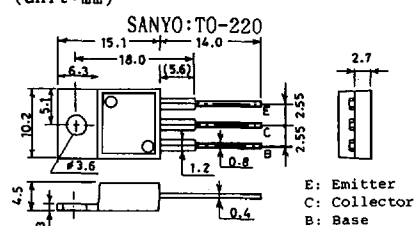
✧ General purpose transistors

2SA1011 2SC2344	TO-220	High voltage SW AF 100W driver	180	160	1.5	*25	5	0.3	60 ~ 200	10	50m	100	0.5	50m	0.5	0.3
2SB511 2SD325		LF power amp	35	35	1.5	*10	2	1	40 ~ 320	5	0.5	8	1.5	0.15		1
2SB514 2SD330			50	50	2	*20	2	1	40 ~ 320	5	0.5	8	2	0.2		1
2SB633 2SD613	TO-3PB	High voltage SW AF 25~35W output	100	85	6	*40	5	1	40 ~ 320	5	1	15	4	0.4		2
2SB775 2SD895		AF 35W output	100	85	6	*60	5	1	60 ~ 200	5	1	18 15	4	0.4	1.4 0.9	2 2
2SB776 2SD896		AF 40W output	120	100	7	*70	5	1	60 ~ 200	5	1	15	4	0.4	0.9 0.6	2 2
2SB816 2SD1046		AF 50W output	150	120	8	*80	5	1	60 ~ 200	5	1	15	5	0.5	1	2
2SB817 2SD1047		AF 60W output	160	140	12	*100	5	1	60 ~ 200	5	1	15	5	0.5	1.1 0.6	2.5 2.5

✧ h_{FE} rank classification

25	B	50	40	C	80	60	D	120	100	E	200	160	F	320
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Case Outline (unit:mm)



These specifications are subject to change without notice.