

Transistors (Selection Guide by Applications and Functions)

■ Silicon Small Signal Transistors

● General-use Low Frequency Amplifiers and Others

Applica- tion Functions	Package (No.)											V _{CEO} V _{CEs} ⁽¹⁾ (V)	I _C (mA)	f _r (MHz)			
	SS Mini Type (D1)	S Mini Type (D5)	Mini Type (D10)	T Mini Type (D19)	New S Type (D39)	TO-92 (D49)	M Type (D40)	TO-92NL (D51)	TO-92L (D50)	Mini Power Type (D16)	MT1 Type (D42)			MT2 Type (D43)	● f _{rFE} * NV(mV) ※ V _{CE} (V)	I _E * I _C (mA)	
General- use low freq. ampli- fier	(2SB1482 2SD2216)	(2SB1218A 2SD1819A)	(2SB709A 2SD601A)	(2SB1627 2SD2496)	(2SA1309A 2SC3311A)		(2SB642 2SD637)				(2SB1320A 2SD1991A)		50	100	● 160 ~ 460 ● 85 ~ 340 ● 120 ~ 330 (e.g.)	* 2 * 150 △ * 10	
		(2SB1219A 2SD1820A)	(2SB710A 2SD602A)	(△ 2SB1582 ⊙ 2SD2432)	(2SB1030A 2SD1423A)	(2SA719/720 2SC1317/1318)	(2SB643/644Δ 2SD638/639Δ)	(2SA1619A 2SC4208A)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1321AΔ 2SD1992AΔ)		25/50	500	● 85 ~ 340	* 150	
					(2SA720A 2SC1318A)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA1534A 2SC3940A)	(2SA777 2SC1509)	(2SB767 2SD875)			70	500	● 120 ~ 330 (e.g.)	* 150	
		(2SA1791 2SC4656)			(2SB1597 2SD2455)	(2SB621A 2SD592A)				(2SB766A 2SD874A)	(2SB1322A 2SD1994A)		25/50	1A	● 85 ~ 340	* 500	
										(2SB1440 2SD2185)			50	50	● 200 ~ 500 (fr. 250)	* 2	
													50	2A	● 120 ~ 340	* 200	
													50	5A	● 120 ~ 340	* 500	
													40	1.5A	● 80 ~ 220	* 1A	
													80	1A	● 120 ~ 340	* 100	
													100	1A	● 120 ~ 340	* 100	
High -freq. (High V _{CEO})													100	2A	● 120 ~ 340	* 200	
													100	150	300	10	
													150	1A	● 120 ~ 340	* 100	
	2SD2345	2SD1823	2SD1030	△ 2SD2433	2SD1424 2SD2460	2SB774 2SD1010	2SD1199 2SD1458				2SD1995			25	100	V _{CEO} : 15V	* 0
														40	50	● 400 ~ 2000	* 2
						2SC2925								20	700	● 1000 ~ 2500	* 150
						2SD1011								50	700	● 400 ~ 1000	* 150
		2SD1824	2SD1149		2SD1512	2SD1011								100	20	● 400 ~ 2000	* 2
			2SD1478A	△ 2SD2434		2SD892A 2SD893A	2SD1205A 2SD1198A							25/50	500	● 2000 ~ 2000	* 500
	Darling- ton													25/50	1A	● 4000 ~ 4000	* 1A
Low freq. low noise ampli- fier													100	2A	● 4000 ~ 4000	* 1A	
													120	20	* 150	—	
													150/ 185	50	* 150	—	
													35/55	50	* 150	—	
													10	500	* < 0.3	* 400	
													20	500	* < 0.4	* 500	
													20	500	* < 0.4	* 500	
													20	300	V _{CEO} : 25V	* 4	
													10	500	* < 0.17	* 250	
	Low V _{CE(sat)}													10	500	* < 0.17	* 250