

# Transistors (Selection Guide by Applications and Functions)

## ■ Silicon Small Signal Transistors ● General-use Low Frequency Amplifiers and Others

Applica- tion Functions	Package (No.)											V <sub>CE0</sub> V <sub>CEs</sub> <sup>1)</sup> (V)	I <sub>C</sub> (mA)	f <sub>r</sub> (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 <sub>rFE</sub> * NV(mV) * V <sub>CE</sub> (V)
General- use low freq. ampli- fier	(2SB1462 2SD2216)	(2SB1218A 2SD1819A)	(2SB709A 2SD601A)	(2SB1627 2SD2496)	(2SA1309A 2SC3311A)	(2SB642 2SD637)	(2SB1320A 2SD1991A)							100	● 160~460 * 2
		(2SB1219A 2SD1820A)	(2SB710A 2SD602A)	(△2SB1582 ⊙2SD2432)	(2SB1030A 2SD1423A)	(2SA719/720 2SC1317/1318)	(2SB643/644△ 2SD638/639△)	(2SA1619/A 2SC4208/A)		(2SB767 2SD875)	(2SB1322A 2SD1994A)			500	● 85~340 * 150 △ * 10
					(2SA720A 2SC1318A)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA1534/A 2SC3940/A)	(2SA777 2SC1509)					500	● 130~330 (e.g.) * 150
		(2SA1791 2SC4656)			(2SB1597 2SD2455)	(2SB621/A 2SD592/A)				(2SB766/A 2SD874/A)				1A	● 85~340 * 500
										(2SB1440 2SD2185)				50	● 200~500 (Fr.250) * 2
														2A	● 120~340 * 200
														5A	● 120~340 * 500
														1.5A	● 80~220 * 1A
							(2SB819 2SD1051)							1A	● 120~340 * 100
														1A	● 120~340 * 100
High- freq. (High V <sub>BE0</sub> )	2SD2345	2SD1823	2SD1030	△ 2SD2433	2SD1424 2SD2460	2SB774 2SD1010	2SD1199 2SD1458							100	● 120~340 * 200
		2SD1824	2SD1149	△ 2SD2434										100	● 120~340 * 200
Dating- ton			2SD1478/A	△ 2SD2434										100	● 120~340 * 200
														100	● 120~340 * 200
Low freq. low noise ampli- fier	(2SB1463 2SD2240/A)	(2SB1220 2SD1821/A)	(2SB792/A 2SD814/A)	△ 2SB1583	(2SA1816 2SC4715)	(2SA921 2SC1980)	(2SB788 2SD958)							20	● 1000~2500 * 150
		(2SA1531/A 2SC3929/A)	(2SA1034/1035 2SC2405/2406)	△ 2SB1585	(2SA1310 2SC3312)	(2SA1123 2SC2631)	(2SB745/A 2SD661/A)		(2SA1124 2SC2632)					20	● 400~2000 * 2
Low V <sub>CE(sat)</sub>			2SB9970	△ 2SB1585	2SB1207									20	● 400~2000 * 2
			2SD1328	△ 2SD2436	2SD1450									20	● 2000~2000 * 500
			2SB779	△ 2SB1584	2SA1512									20	● 4000~4000 * 1A
		2SD1979		2SD2529										20	● 4000~4000 * 1A
	(△2SB1618 △2SD2482)												10	● 500~2500 * 4	