

Transistors (Selection Guide by Applications and Functions)

■ Silicon Small Signal Transistors

● General-use Low Frequency Amplifiers and Others

Application Functions	Package (No.)										V _{CE0} V _{CEs} ⁽¹⁾ (V)	I _c (mA)	f _r (MHz)	
	SS-Mini Type (D1)	S-Mini Type (D5)	Mini Type (D12)	New S Type (D34)	TO-92 (D46)	M Type (D35)	TO-92NL (D48)	TO-92L (D47)	Mini -Power Type (D19)	MT1 Type (D37)			MT2 Type (D38)	● h _{FE} * NV(mV) * V _{CE} (V)
General-use low freq. amplif- fier	(2SB1462 2SD2216)	(2SB1218A 2SD1819A)	(2SB709A 2SD601A)	(2SA1309A 2SC3311A)	(2SA719/720 2SC1317/1318)	(2SB642 2SD637)	(2SA1619/A 2SC4208/A)	(2SB1320A 2SD1991A)	(2SB1320A 2SD1991A)	(2SB1321A 2SD2071)	(2SB1321A 2SD2071)	● 160 to 460 ● 85 to 340 ● 130 to 330 (e.g.)	● 100 ● 500 ● 500 1A 50 2A 5A 1.5A 1A 1A 2A 150 1A	* 2 * 150 * 10 * 150 * 500 * 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SA1791 2SC4656)	(2SA1748 2SC4562)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
High-h _{FE} (High V _{BE0})	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
Darlington	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
Low freq. low noise ampli- fier	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
Low V _{CE(sat)}	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100
△ Tentative (: Complementary pair	(2SD2345)	(2SB1220 2SD1821/A)	(2SB792A 2SD602A)	(2SA1030A 2SD1423/A)	(2SA777 2SC1509)	(2SA1762 2SC4606)	(2SA1533 2SC3939)	(2SA777 2SC1509)	(2SB767 2SD875)	(2SB1322A 2SD1994A)	(2SB1322A 2SD1994A)	● 85 to 340 ● 200 to 500 (fr. 250)	● 50 50/60 50 40 80 100 100 150 1A	* 2 * 200 * 500 * 1A * 100 * 200 10 * 100