

Transistors (Selection Guide by Applications and Functions)

■ Silicon Medium Power Transistors (continued)

Application Functions	Package (No.)						V _{CEO} (V)	I _C (A)	V _{CE(sat)} typ (V)	I _C (A)	I _B (mA)	h _{FE} ● f _T (MHz)	I _C * I _E (A)
	U Type (D36)	TO-126 (D49 ※, D50)	MT3 Type (D40)	MT4 Type (D41)	TO-220(a) (D52)	TO-220F (D55)							
General-use low freq. amplifier (continued)					2SC1398A		50/70	2	0.6	1.0	100	50 to 160	1
	△ 2SB1573 2SD2407		2SB1416 2SD2136	2SB1417 2SD2137		2SB941/A 2SD1266/A	60	3	<1.2	3.0	375	40 to 250	1
				2SB1553			60	3	<1	2.0	50	300 to 700	0.5
							80	1	<0.3	0.5	50	120 to 340	0.1
		2SA794/A 2SC1567/A					100/120	0.5	0.2	0.5	50	65 to 330	0.15
			2SB1439 2SD2183				100	2	<0.3	1.0	50	120 to 340	0.2
				2SD2341			150	1	<0.3	0.5	25	120 to 340	0.5
		△ 2SD2412					180	2	<1	0.5	50	60 to 240	0.15
						300	0.75	<1	1.0	200	40 to 250	0.3	
Audio drive		2SA1110 2SC2590					120	0.5	1.0	0.3	30	65 to 330	0.15
			2SB1414 2SD2134		2SA1111	2SA1535/A 2SC3944/A	150/180	1	0.5	0.5	50	90 to 330	0.15
Low V _{CE(sat)}	2SB967						18	5	<1	3	100	90 to 625	2
		2SA900 2SC1568					18	1	0.3	1.0	50	90 to 360	0.5
			△ 2SB1593				20	3	0.3	2.6	40	—	—
		2SC2594 ※					20	5	0.7	3.0	100	140 to 450	0.15
							20	5	<1.0	3.0	100	90 to 625	2
	2SD2556					80	5	<0.3	1.0	125	60 to 260	2	
Pre-amp		2SA914 2SC1953					150	0.05	<1.0	0.03	3.0	90 to 450	0.01
Darlington		2SD946/A/B	2SD2220 (80V)				30/60/ 100	1	<1.8	1.0	1	4000 to 40000	1
			2SB1526	2SB1418 2SD2138		2SB949 2SD1275	60	2	<2.5	2.0	8	1000 to 10000	2
			2SB1504				60	8	<1.5	4	8	1000 to 10000	4
		2SD1640	2SD2479				100	2	<1.5	1.0	1	4000 to 40000	1
		2SD1645				2SD2051	60 ±10	1	<1.8	1.0	1	4000 to 40000	1
		2SD2018					60 ±10	1	<1.8	1.0	1	6500 to 40000	1
		△ 2SB1576					100	2	<2.5	1	4	1000 to 10000	1
		△ 2SD2410											
		△ 2SD2411					200	2	<2.5	1.5	6	1000 to 10000	0.7
				2SD2242/A		2SD1276/A	60/80	4	<2.0	3.0	12	1000 to 10000	3
			2SD2530			100	5	<2.5	4.0	16	1000 to 10000	2	
High breakdown voltage		2SA914 2SC1953					150	0.05	<1.0	0.03	3	90 to 450	0.01
		2SB1011					400	0.1	<2.5	0.05	5	≥30	0.03
			2SB1653				400	0.5	<1.5	0.2	40	80 to 280	0.05
		2SA1949 2SC5222 △ 2SC5285					500	0.5	<1	0.25	50	20 to 500	0.01
		2SA1950 2SC5223					500	1.0	<1	0.5	100	20 to 500	0.01
		2SA1951 2SC5224					500	2.0	<1	1.0	200	20 to 500	0.01
		2SC5221					500	0.2	<1	0.1	20	20 to 500	0.01
Display		2SC3611	△ 2SC5341			2SC3943	V _{CB0} 110	0.15	<0.5	0.15	15	● 350	* 0.11

△ Tentative (: Complementary pair

Part Number List

Discrete Devices

[Package Symbol]	Old Part Nos	New Part Nos	Package	Page	Old Part Nos	New Part Nos	Package	Page
	Transistors				2SB621/A	2SB0621/A	TO92	116,125
					2SB642	2SB0642	M	118,125
SS Mini 3P: SS-Mini 3-pin	2SA683	2SA0683	TO92L	117,125	2SB643	2SB0643	M	118,125
S Mini 2P: S-Mini 2-pin	2SA684	2SA0684	TO92L	117,125	2SB644	2SB0644	M	118,125
S Mini 3P: S-Mini 3-pin	2SA699/A	2SA0699/A	TO202	121,128	2SB709A	2SB0709A	Mini 3P	115,125
S Mini 4P: S-Mini 4-pin	2SA719	2SA0719	TO92	116,125	2SB710/A	2SB0710/A	Mini 3P	115,125
S Mini 5P: S-Mini 5-pin	2SA720/A	2SA0720/A	TO92	116,125	2SB726	2SB0726	TO92	116
S Mini 6P: S-Mini 6-pin	2SA748	2SA0748	TO220	121,128	2SB745/A	2SB0745/A	M	118,126
TS Mini 6P: Thin S-Mini 6-pin	2SA777	2SA0777	TO92L	117,125	2SB766/A	2SB0766/A	Mini Power 3P	116,125
Mini 2P: Mini 2-pin	2SA794/A	2SA0794/A	TO126	119,129	2SB767	2SB0767	Mini Power 3P	116,125
Mini 3P: Mini 3-pin	2SA838	2SA0838	TO92	116,127	2SB774	2SB0774	TO92	116,125
Mini 4P: Mini 4-pin	2SA879	2SA0879	TO92L	117,126	2SB779	2SB0779	Mini 3P	115,126
Mini 5P: Mini 5-pin	2SA885	2SA0885	TO126	119,128	2SB788	2SB0788	M	118,125
Mini 6P: Mini 6-pin	2SA886	2SA0886	TO126	119,128	2SB789/A	2SB0789/A	Mini Power 3P	116,126
T Mini 3P: Thin Mini 3-pin	2SA890	2SA0900	TO126	119,129	2SB790	2SB0790	M	118,126
Mini Power 2P: Mini-Power 2-pin	2SA914	2SA0914	TO126	119,129	2SB792/A	2SB0792/A	Mini 3P	115,125
Mini Power 3P: Mini-Power 3-pin	2SA921	2SA0921	TO92	116,125	2SB819	2SB0819	M	118,125
New Mini Power 2P: New Mini-Power 2-pin	2SA963	2SA0963	TO126	119,128	2SB873	2SB0873	TO92L	117,126
HNMP 2P: Half New Mini Power 2-pin					2SB873	2SB0873	TO92L	117,126
Flat Mini 3P: Flat Mini 3-pin					2SB928/A	2SB0928/A	N	120,130
TO92: TO-92					2SB929/A	2SB0929/A	N	120,130
TO92L: TO-92L					2SB930/A	2SB0930/A	N	120,130
TO92NL: TO-92NL					2SB931	2SB0931	N	120,130
TO92-2P: TO-92-2-pin					2SB932	2SB0932	N	120,130
S: S Type					2SB933	2SB0933	N	120,130
NS: New S Type					2SB934	2SB0934	N	120,131
U: U Type					2SB935/A	2SB0935/A	N	120,130
M: M Type					2SB936/A	2SB0936/A	N	120,130
MT1: MT1 Type					2SB937/A	2SB0937/A	N	120,131
MT2: MT2 Type					2SB938/A	2SB0938/A	N	120,131
MT3: MT3 Type					2SB939/A	2SB0939/A	N	120,131
MT4: MT4 Type					2SB940/A	2SB0940/A	TO220F	122,130
N: N Type					2SB941/A	2SB0941/A	TO220F	122,129,130
I: I Type					2SB942/A	2SB0942/A	TO220F	122,130
TO126: TO-126					2SB943	2SB0943	TO220F	122,130
TO202: TO-202					2SB944	2SB0944	TO220F	122,130
TO220: TO-220					2SB945	2SB0945	TO220F	122,130
TO220F: TO-220 Full Pack					2SB946	2SB0946	TO220F	123,131
TO220D: TO-220D					2SB947/A	2SB0947/A	TO220F	123,130
TO220D 2P: TO-220D 2-pin					2SB948/A	2SB0948/A	TO220F	123,130
TO220E: TO-220E					2SB949/A	2SB0949/A	TO220F	122,129,131
TOP3: TOP-3					2SB950/A	2SB0950/A	TO220F	122,129,131
TOP3E: TOP-3E					2SB951/A	2SB0951/A	TO220F	123,129,131
TOP3F: TOP-3 Full Pack					2SB952/A	2SB0952/A	N	120,130
TOP3L: TOP-3L					2SB953/A	2SB0953/A	TO220F	123,130
SO10/14/16:					2SB954/A	2SB0954/A	TO220F	122,130
SO Package (10/14-pin/16-pin)					2SB956	2SB0956	Mini Power 3P	116,126
SIL8/SIL10/SIL12:					2SB967	2SB0967	U	120,129
8-pin SIP/10-pin SIP/12-pin SIP					2SB968	2SB0968	U	120,128
DO34: DO-34					2SB970	2SB0970	Mini 3P	115,126
DO35: DO-35					2SB976	2SB0976	TO92	116,126
DO41: DO-41							TO126	119,129
HSOP24D: HSOP-24D							NS	117,125
SSOF10D: SSOF-10D							NS	117,125
SSONF10D: SSONF-10D							M	118,125
							TO92	116,126
							SS Mini 3P	115,127
							SS Mini 3P	115,127
							NS	117,125
							TO92NL	117,126
							U	120,133
							Mini Power 3P	116,125
							U	120,129
							U	120,129
							MT2	118,126
							MT2	118,125
							TO220D	130
							S Mini 3P	115,125
							Mini 3P	115,126

△Tentative ◉Darlington