

Transistors (Selection Guide by Applications and Functions)

● High Frequency Silicon Transistors for Tuners (FETs included)

Band	Application	Package (No.)							
		TO-92 (D46)	New S Type (D34)	M Type (D35)	SS-Mini Type (3 pin) (D1)	S-Mini Type (3 pin) (D5)	S-Mini Type (4 pin) (D6)	Mini Type (3 pin) (D12)	Mini Type (4 pin) (D13)
VHF	RF Amp.	2SC1215					3SK268		3SK144 3SK227 3SK241 3SK268 3SK286
	Mix	2SC1215	2SC3354	2SC2636				2SC2480 △ 2SC5216	
	OSC.	2SC1215	2SC4716 2SC3354	2SC2636		2SC3932		2SC2480	
	IF Amp.	2SC1215	2SC3354	2SC2636				2SC2480	
UHF	RF Amp.					2SC3933	3SK272 ¹⁾ 3SK287	2SC3077	3SK143 3SK241 ¹⁾ 3SK273 ¹⁾ 3SK285
	Mix.					2SC3937 2SC3933		2SC3077	
	OSC.				2SC4809	2SC3935		2SC3130	
SHF	IF Amp.	2SC2671(F)				2SC3934 2SC3937 2SC4805 2SC5190		2SC3904 2SC3704 2SC3829	2SC5019 (Mini Power Type)
Wide band	RF Amp.	2SC2671(F)			2SC4808	2SC3934 2SC3937 2SC4805 2SC4835 2SC5190	3SK269 3SK270 3SK271	2SC3704	3SK219

△ Tentative 1)MES FET

■ Silicon Medium-Power Transistors

Application Function	Package (No.)					V _{CE0} (V)	I _c (A)	V _{CE(sat)} typ (V)	I _c (A)	I _B (mA)	h _{FE} ● f _T (MHz)	I _c (A)	
	U Type (D36)	TO-126 (D49 ※, D50)	MT3 Type (D40)	TO-202 (D51)	TO-220(a) (D52)								
General-use low freq. amplifier				2SA699 2SC1226		32	1.5	0.4	-1.5 2	-150 200	50 to 220	1	
		2SA885 2SC1846	2SB1413 2SD2133			35	1	<0.5	0.5	50	85 to 340	0.5	
		2SB968 2SD1295	2SA886 2SC1847		2SA699A 2SC1226A		40	1.5	0.4	-1.5 2	-150 200	50 to 220	1
			2SA963 ※ 2SC2209 ※				40	1.5	<1.0	1.5	150	30 to 220	1
				2SC4545			40	1.5	1.0	2.0	200	30 to 220	1
			2SA1096/A 2SC2497/A		2SA748 2SC1398		50/60	2	<1.0	1.5	150	50 to 220	1
		2SB1574 2SD2408		2SB1435 2SD2178			50	2	<0.3	1.0	50	120 to 340	0.2
		2SB1575 2SD2409		2SB1447 △ 2SD2180			50	3	<0.3	2.0	100	120 to 340	0.5

△ 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	2SA900	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			TO92	116,126	2SB928/A	2SB0928/A	N	120,130
Flat Mini 3P: Flat Mini 3-pin			Mini 3P	115,127	2SB929/A	2SB0929/A	N	120,130
TO92: TO-92			Mini 3P	115,126	2SB930/A	2SB0930/A	N	120,130
TO92L: TO-92L			Mini 3P	115,126	2SB931	2SB0931	N	120,130
TO92NL: TO-92NL			TO126	119,128	2SB932	2SB0932	N	120,130
TO92-2P: TO-92-2-pin			TO92	116,125	2SB933	2SB0933	N	120,130
S: S Type			TO92L	117,125	2SB934	2SB0934	N	120,131
NS: New S Type			TO92	116,126	2SB935/A	2SB0935/A	N	120,130
U: U Type			TO92	116,126	2SB936/A	2SB0936/A	N	120,130
M: M Type			M	118,127	2SB937/A	2SB0937/AJ	N	120,131
MT1: MT1 Type			NS	117,125	2SB938/A	2SB0938/AJ	N	120,131
MT2: MT2 Type			NS	117,126	2SB939/A	2SB0939/AJ	N	120,131
MT3: MT3 Type			NS	117,127	2SB940/A	2SB0940/A	TO220F	122,130
MT4: MT4 Type			U	120,130	2SB941/A	2SB0941/A	TO220F	122,129,130
N: N Type			I	121,133	2SB942/A	2SB0942/A	TO220F	122,130
I: I Type			N	120,133	2SB943	2SB0943	TO220F	122,130
TO126: TO-126			TO220F	122,133	2SB944	2SB0944	TO220F	122,130
TO202: TO-202			TO220	121,133	2SB945	2SB0945	TO220F	122,130
TO220: TO-220			TO220F	122,133	2SB946	2SB0946	TO220F	123,131
TO220F: TO-220 Full Pack			NS	117,126	2SB947/A	2SB0947/A	TO220F	123,130
TO220D: TO-220D			S Mini 3P	115,126	2SB948/A	2SB0948/A	TO220F	123,130
TO220D 2P: TO-220D 2-pin			S Mini 3P	115,127	2SB949/A	2SB0949/AJ	TO220F	122,129,131
TO220E: TO-220E			TO92NL	117,125	2SB950/A	2SB0950/AJ	TO220F	122,129,131
TOP3: TOP-3			TO92NL	117,125	2SB951/A	2SB0951/AJ	TO220F	123,129,131
TOP3E: TOP-3E			TO220F	122,129	2SB952/A	2SB0952/A	N	120,130
TOP3F: TOP-3 Full Pack			I	121,133	2SB953/A	2SB0953/A	TO220F	123,130
TOP3L: TOP-3L			TO220F	122,133	2SB954/A	2SB0954/A	TO220F	122,130
SO10/14/16:			TO92NL	117,125	2SB956	2SB0956	Mini Power 3P	116,126
SO Package (10/14-pin/16-pin)			MT2	118,125	2SB967	2SB0967	U	120,129
SIL8/SIL10/SIL12:			Mini Power 3P	116,126	2SB968	2SB0968	U	120,128
8-pin SIP/10-pin SIP/12-pin SIP			Mini 3P	115,127	2SB970	2SB0970	Mini 3P	115,126
DO34: DO-34			S Mini 3P	115,127	2SB976	2SB0976	TO92	116,126
DO35: DO-35			S Mini 3P	115,125		2SB1011	TO126	119,129
DO41: DO-41			M	118,125		2SB1030/A	NS	117,125
HSOP24D: HSOP-24D			TO92	116,126		2SB1036	NS	117,125
SSOF10D: SSOF-10D			SS Mini 3P	115,127		2SB1050	M	118,126
SSONF10D: SSONF-10D			SS Mini 3P	115,125		2SB1052	TO220F	122,130
			NS	117,125		2SB1054	TOP3F	124,132
			TO92NL	117,126		2SB1063	TO220F	122,130
			U	120,133		2SB1070/A	N	120,130
			Mini Power 3P	116,125		2SB1071/A	TO220F	122,130
			U	120,129		2SB1073	Mini Power 3P	116,126
			U	120,129		2SB1108J	TO220F	123,131
			MT2	118,126		2SB1148/A	I	121,130
			MT2	118,125		2SB1154	TOP3F	124,132
			TO220D	130		2SB1155	TOP3F	124,132
			S Mini 3P	115,125		2SB1156	TOP3F	124,132
			Mini 3P	115,126		2SB1169/A	I	121,130
						2SB1170	I	121,130

△Tentative ○Darlington