

# Transistors (Selection Guide by Applications and Functions)

## ● High Speed Switch · VCO and High Frequency Type

Application Functions	Package (No.)					V <sub>CEO</sub> V <sub>CES1</sub> (V)	I <sub>c</sub> (mA)	t <sub>s</sub> (ns)
	SS Mini Type (D1)	S Mini Type (D5)	Mini Type (D12)	T Mini Type (D22)	TO-92 (D46)			
High speed switch	2SA1806	2SA1739	2SA1738			15	50	19
VCO and high freq. type	2SC4691	2SC3938	2SC3757	△ 2SC4969	2SC3811	40 <sup>1)</sup>	100	10
		2SC4755	2SC4782			20 <sup>1)</sup>	200	7

△ Tentative

## ● High Frequency Amplifiers and Others

Functions	Package (No.)								V <sub>CEO</sub> (V)	I <sub>c</sub> (mA)	f <sub>T</sub>	
	SS Mini Type (D1)	S Mini Type (D5)	Mini Type (D12) * 4 pin (D13)	T Mini Type (D22)	Mini Power Type (D19)	New S Type (D34)	TO-92 (D46)	M Type (D35)			(MHz)	I <sub>E</sub> × I <sub>C</sub> (mA)
AM FM Mix. OSC. Amp.	2SC4655	2SC3936	2SC2778	2SC4972		2SC3313	2SC829	2SC2647	20	30	230	1
	2SA1790 2SC4626	2SA1532 2SC3930	2SA1022 2SC2295	△ 2SA1888		2SA1323 2SC3314	2SA838 2SC1359	2SA1254 2SC2206	20	30	250	1
Video IF FM RF Amp.								2SC2188	35	50	500	10
	2SC4627 △ 2SC5021	2SC3931 △ 2SC5020	2SC2404	△ 2SC4973		2SC3315	2SC1047	2SC2377	20	15	650	1
V H F OSC. Amp. Mix						2SC4716			18	50	980	10
		2SC3932	2SC2480	△ 2SC4974		2SC3354	2SC1215	2SC2636	20	50	1200	D15
			△ 2SC5216	△ 2SC5016					8	50	1300	15
U H F RF OSC.		2SC3933	2SC3077	△ 2SC4975					20	20	1100	3
		2SC4780					◇ 2SC2671(H)		12	70	4500	20
	2SC4809	2SC3935	2SC3130						10	50	1900	5
Micro tuner		2SC4068							20	20	1500	1.8
1V RF Amp.		2SC4410	2SC3707						7	10	4000	1
Wide Band Amp. SHF IF Amp.		2SC3934							12	30	4500	10
		2SC3937	2SC3704				◇ 2SC2671(F)		14	80	5500	40
	2SC4808	2SC4835	2SC3829		△ 2SC5019		2SC4968		10	80	7600	30
	2SC5295	2SC4805	2SC3904						10	65	9000	20
	△ 2SC5190							6	30	10G	* 10	

△ Tentative ◆ Center Emitter (1:C 2:E 3:B) ◇ Center Emitter (1:B 2:E 3:C) (: Complementary pair

## ● High Frequency Silicon Transistors for Transmitters

Frequency Band · Application	Type No.	V <sub>CEO</sub> (V)	I <sub>c</sub> (A)	P <sub>o</sub> min. (W)	f <sub>T</sub> min. (MHz)	Package	
							No.
VHF	175MHz	2SC2851	16	0.3	0.6	TO-92L	D47
		2SC4767	16	0.3	0.6	TO-92NL	D48
		2SC4893	16	0.3	0.6	MT3	D40
		2SC2988	16	0.5	1.8	TO-126(b)	D50