

# 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>CES</sub> <sup>1)</sup> (V)	I <sub>c</sub> (mA)	t <sub>s</sub> (ns)
	SS Mini Type (D1)	S Mini Type (D5)	Mini Type (D10)	T Mini Type (D19)	TO-92 (D49)			
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

△ Preliminary

## ● High Frequency Amplifiers and Others

Functions	Package (No.)								V <sub>CEO</sub> (V)	I <sub>c</sub> (mA)	f <sub>r</sub>		
	SS Mini Type (D1)	S Mini Type (D5)	Mini Type (D10) * 4 pin (D11)	T Mini Type (D19)	Mini Power Type (D16)	New S Type (D39)	TO-92 (D49)	M Type (D40)			(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
	Amp.	( 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
							◆ 2SC1688			40	30	550	5
V H F	OSC.						2SC4716			18	50	980	10
	OSC Amp.		2SC3932	2SC2480	△ 2SC4974		2SC3354	2SC1215	2SC2636	20	50	1200	D15
U H F	RF		2SC3933	2SC3077	△ 2SC4975					20	20	1100	3
			2SC4780					◇ 2SC2671(H)		12	70	4500	20
	OSC.	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
				* 2SC4516						10	80	8000	* 20
			2SC4805	2SC3904						10	65	9000	20
				* 2SC4515						10	50	7000	* 10
		△ 2SC5190							6	30	10G	* 10	

△ Preliminary ◆ 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>r</sub> min. (MHz)	Package	
						No.	No.
V H F 175MHz	2SC2851	16	0.3	0.6	1500	TO-92L	D48
	2SC4767	16	0.3	0.6	1500	TO-92NL	D51
	2SC4893	16	0.3	0.6	1500	MT3	D45
	2SC2988	16	0.5	1.8	600	TO-126(b)	D53