

TRANSISTORS

High-Frequency Transistors

Device	Package type	Applications	Absolute maximum ratings						Electrical characteristics (T _a = 25 °C)							
			V _{CE0} (V)	V _{CE0} (V)	V _{BE0} (V)	I _C (mA)	P _C (mW)	T _J (°C)	I _{CEO} max @ V _{CE}		h _{FE} @ V _{CE} · I _C		f _T @ V _{CE} · I _C			
								I _{CEO} max (μA)	V _{CE} (V)	h _{FE}	V _{CE} (V)	I _C (mA)	f _T (MHz)	V _{CE} (V)	I _C (mA)	
2SA1863*	SMCP	HF amplifier	15	12	3	50	150	0.1	12	60 to 270	10	5	750	10	5	
2SC4918*	SMCP	HF amplifier	40	18	3	50	150	0.1	18	60 to 270	10	5	750	10	5	
2SA1857	MCP	HF amplifier	15	12	3	50	150	0.1	12	60 to 270	10	5	750	10	5	
2SC4400	MCP	HF amplifier	40	18	3	50	150	0.1	18	60 to 270	10	5	750	10	5	
2SC4399	MCP	HF amplifier	30	20	5	30	150	0.1	10	60 to 270	6	1	320	6	1	
2SA1688	MCP	HF amplifier	30	20	5	30	150	0.1	10	60 to 270	6	1	230	6	1	
2SK1065	MCP	HF amplifier	20†	—	—	10#	150††	10 nA§§	0.5‡‡	1.2 to 12 mA	5§	—	6.0 mS***	5§	—	
2SK1066	MCP	HF amplifier	15‡	—	—	10#	150††	1 nA§§	10‡‡	3.5 to 12 mA	5§	—	17 mS***	5§	—	
2SK1067	MCP	FM tuner, VHF band amplifier (MOSFET)	16§	—	—	30**	150††	10 nA§§	±5‡‡	1.2 to 12 mA	10§	—	11 mS***	10§	—	
2SK545	CP	Impedance converter	40‡	—	—	10#	100††	0.5 nA§§	20‡‡	0.03 to 0.3 mA	10§	—	0.13 mS***	10§	—	
2SC4432	CP	HF amplifier	40	18	3	50	250	0.1	18	60 to 270	10	5	750	10	5	
2SC3142	CP	HF amplifier	25	20	3	30	150	0.1	10	40 to 180	6	1	750	6	4	
2SA1815	CP	HF amplifier	15	12	3	50	250	0.1	12	60 to 270	10	5	750	10	5	
2SA1580	CP	High-resolution CRT display video output amplifier	70	60	4	50	200	0.1	40	60 to 270	10	10	700	10	10	
2SC4104	CP	High-resolution CRT display video output amplifier	70	60	4	50	200	0.1	40	60 to 270	10	10	700	10	10	
2SC2814	CP	HF amplifier	30	20	5	30	150	0.1	10	40 to 270	6	1	320	6	1	
2SA1256	CP	HF amplifier	30	20	5	30	150	0.1	10	60 to 270	6	1	230	6	1	
2SK242	CP	HF amplifier	20†	—	—	10#	150††	10 nA§§	0.5‡‡	0.6 to 12 mA	5§	—	6.0 mS***	5§	—	
2SK436	CP	HF amplifier, audio amplifier	15‡	—	—	10#	150††	1 nA§§	10‡‡	1.2 to 12 mA	5§	—	17 mS***	5§	—	
2SK443	CP	Video camera 1st stage amplifier	15‡	—	—	10#	200††	1 nA§§	10‡‡	5 to 38 mA	5§	—	30 mS***	5§	—	
2SK543	CP	FM tuner, VHF band amplifier (MOSFET)	20§	—	—	30**	200††	10 nA§§	±5‡‡	1.2 to 12 mA	10§	—	11 mS***	10§	—	
2SK931	CP	HF low-noise amplifier	30‡	—	—	10#	200††	1 nA§§	20‡‡	5 to 30 mA	5§	—	30 mS***	5§	—	
2SK932	CP	HF low-noise amplifier	15‡	—	—	10#	200††	1 nA§§	10‡‡	5 to 24 mA	5§	—	50 mS***	5§	—	
2SK968	CP	HF amplifier (2SK242 pin assign changed)	20†	—	—	10#	200††	10 nA§§	0.5‡‡	0.6 to 12 mA	5§	—	6 mS***	5§	—	
2SK1740	CP	HF amplifier	40‡	—	—	10#	250††	1 nA§§	20‡‡	40 to 75 mA	10§	—	15 mS***	10§	10	
2SK2073*	CP	HF low-noise amplifier	15	15‡	10 mA#	50**	200††	1 nA§§	10‡‡	6.0 to 20 mA	5§	—	30 mS***	5§	—	
3SK265	CP4	HF amplifier	15§	±8‡‡	±8‡‡	30**	200††	125‡‡‡	—	—	2.5 to 24 mA##	6§	—	22 mS***	6§	—
3SK180	CP4	HF amplifier (MOSFET)	15§	—	—	30**	200††	125	—	—	2.5 to 24 mA	10§	—	20 mS***	10§	—
3SK266*	CP4	HF amplifier	13.5§	±8‡‡	±8‡‡	30**	200††	125‡‡‡	—	—	5.0 to 24 mA##	6§	—	20 mS***	6§	—
3SK181	CP4	HF amplifier (Enhancement-mode MOSFET)	15§	—	—	30**	200††	125	—	—	2.5 to 24 mA##	10§	—	18 mS***	10§	—
3SK251	CP4	HF amplifier (MOSFET)	15§	±8‡‡	±8‡‡	30**	200††	125‡‡‡	—	—	2.5 to 24 mA##	—	—	18 mS***	10§	—
3SK263*	CP4	HF amplifier	15§	±8‡‡	±8‡‡	30**	200††	125‡‡‡	—	—	2.5 to 24 mA##	6§	—	14 mS***	6§	—
3SK264*	CP4	HF amplifier	15§	±8‡‡	±8‡‡	30**	200††	125‡‡‡	—	—	2.5 to 24 mA##	6§	—	18 mS***	6§	—
FC12*	CP5	HF amplifier	55	50	6	150	200	0.1	35	135 to 400	6	1	200	6	10	
FC14*	CP5	Impedance converter	40	40‡	10 mA#	1**	100††	500 pA§§	20‡‡	30 to 180 μA	10§	—	0.13 mS***	10§	—	
FC15*	CP5	HF amplifier	55	50	6	150	200	0.1	35	135 to 400	6	1	200	6	10	
FC120	CP6	HF amplifier (2SC3142 × 2)	25	20	3	30	200	0.1	10	80 to 200	6	1	750	6	4	
FC119	CP6	HF amplifier (2SC2814 × 2)	30	20	5	30	200	0.1	10	80 to 200	6	1	320	6	1	
2SC4504	PCP	High-resolution CRT display video output amplifier	30	20	3	300	1300*	0.1	20	40 to 200	5	50	2200	5	50	
2SA1724	PCP	High-resolution CRT display video output amplifier	30	20	3	300	1300*	0.1	20	15 to 100	5	50	1500	5	100	
2SA1575	PCP	High-resolution CRT display video output amplifier	200	200	4	100	1300*	0.1	150	40 to 320	10	10	400	30	30	
2SC4080	PCP	High-resolution CRT display video output amplifier	200	200	4	100	1300*	0.1	150	40 to 320	10	10	400	30	30	

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