

Device	Package type	Applications	Absolute maximum ratings					Electrical characteristics (T _a = 25 °C)										
			V _{CBO} (V)	V _{CEO} (V)	I _C (mA)	P _C (mW)	T _J (°C)	f _T			C _{ob} @ V _{CB}		NF @ V _{CE}		I _C (mA)	[S ₂₁ e] ^{2†} @ V _{CE} · I _C		
								f _T (GHz)	V _{CE} (V)	I _C (mA)	C _{ob} (pF)	V _{CB} (V)	NF (dB)	V _{CE} (V)		[S ₂₁ e] ² (dB)	V _{CE} (V)	I _C (mA)
2SC4861	CP	UHF local oscillator	20	10	30	200	150	6.5	5	5	0.65	10	2.2	5	5	11.5	5	5
2SC4857	CP	VHF to UHF local oscillator	18	10	80	200	150	6.0	5	20	1.0	10	1.5	5	5	> 6	5	10
2SC4854	CP	Low-voltage low-current high-frequency amplifier	12	6	15	80	150	5.0	1	1	0.6	1	2.8	1	1	7	1	1
2SC3774	CP	VHF amplifier	20	12	70	250	150	5.0	10	20	0.75	10	2.2	10	5	14††	10	20
2SC3775	CP	VHF amplifier	20	12	100	250	150	5.0	10	20	0.9	10	1.5	10	5	14††	10	20
2SC3773	CP	VHF amplifier	25	16	50	250	150	3.5	10	5	0.6	10	3.0	10	3	12††	10	10
2SA1669	CP	VHF amplifier	20	15	50	250	150	3.0	10	5	1.0	10	2.0	10	3	—	—	—
2SC3772	CP	VHF amplifier	25	16	70	250	150	3.0	10	10	0.65	10	2.5	10	3	12††	10	10
2SC4270	CP	UHF mixer, oscillator	25	15	50	250	150	3.0	10	10	0.7	10	3.0	10	3	12††	10	10
2SC4364	CP	VHF/UHF mixer, oscillator, low-voltage HF amplifier	25	15	30	250	150	3.0	3	3	0.75	3	3.0	3	3	11††	3	3
2SC4365	CP	VHF/UHF mixer, oscillator, low-voltage HF amplifier	25	15	50	250	150	3.0	3	10	0.9	3	1.5	3	5	12††	3	10
2SC3771	CP	VHF amplifier	30	20	30	250	150	2.2	10	5	0.7	10	3.5	10	3	10†/16†	10	10
2SC3770	CP	VHF amplifier	30	20	30	250	150	1.2	10	3	0.7	10	—	—	—	15†	10	5
2SA1778	CP	VHF amplifier	15	15	50	250	150	1.2	10	5	1.5	10	2.5	10	3	13††	10	5
2SC4269	CP	VHF mixer, oscillator	30	15	50	250	150	1.2	10	10	0.75	10	2.0	10	3	15††	10	10
2SC4873	CP4	UHF to S-band low-noise amplifier, oscillator	16	8	20	150	150	10.0	5	4	0.45	10	1.4	5	4	15	5	7
2SC4869	CP4	VHF to UHF wideband low-noise amplifier	16	8	50	200	150	9.0	5	15	0.7	10	1.3	5	5	15	5	15
2SC4865	CP4	VHF to UHF wideband low-noise amplifier	16	8	70	200	150	7.0	5	20	0.95	10	1.1	5	7	12.5	5	20
2SC4862	CP4	UHF local oscillator	20	10	30	200	150	6.5	5	5	0.65	10	2.2	5	5	12.5	5	5
2SC4858	CP4	VHF to UHF local oscillator	18	10	80	200	150	6.0	5	20	1.0	10	1.5	5	5	> 7	5	20
2SC4855	CP4	Low-voltage low-current high-frequency amplifier	12	6	15	80	150	5.0	1	1	0.6	1	2.8	1	1	8	1	1
3SK189	CP4	HF amplifier (GaAs MESFET)	13§	—	50	200#	125	I _{DSS} = 8.5 to 40 mA, Y _{fs} = 19 mS										
FC151	CP6	High-frequency amplifier, current mirror circuit	20	15	50	200	150	3.0	10	5	1.0	10	2.0	10	3	> 5**	10	5
FC152	CP6	High-frequency amplifier, differential amplifier	25	15	50	200	150	3.0	10	10	0.7	10	3.0	10	3	12**	—	10
2SC4870	PCP	VHF to UHF wideband low-noise amplifier	16	8	50	300	150	8.0	5	15	0.8	10	1.3	5	5	11	5	15
2SC4866	PCP	VHF to UHF wideband low-noise amplifier	16	8	70	800*	150	6.5	5	20	1.05	10	1.1	5	7	9	5	20
2SC4859	PCP	VHF to UHF local oscillator	18	10	80	800*	150	5.5	5	20	1.1	10	1.5	5	5	> 5	5	20
2SC4673	PCP	VHF amplifier	20	12	100	800*	150	4.5	10	20	1.1	10	1.5	10	5	—	—	—
2SC3779	NP	VHF amplifier	20	12	100	600	150	5.0	10	20	1.0	10	1.5	10	5	14††	10	20
2SC3778	NP	VHF amplifier	20	12	70	500	150	5.0	10	20	0.8	10	2.2	10	5	14††	10	20
2SC3777	NP	VHF amplifier	25	16	50	400	150	3.5	10	5	0.7	10	3.0	10	3	12††	10	10
2SC3776	NP	VHF amplifier	25	16	70	400	150	3.0	10	10	0.7	10	2.5	10	3	12††	10	10
2SC3925	DP6A, B	VHF amplifier	20	12	100	250	150	5.0	10	20	0.9	10	—	—	—	—	—	—
2SC4072	DP6A, B	VHF amplifier	25	16	50	250	150	3.5	10	5	0.6	10	—	—	—	—	—	—
2SC4071	DP6A, B	VHF amplifier	30	20	30	250	150	1.2	10	3	0.7	10	—	—	—	—	—	—

* Ceramic mount (250 mm² × 0.8 mm)
† PG
‡ f = 1.0 GHz
§ V_{DS}
|| I_D

P_D
** f = 0.9 GHz
†† MAG
Note: Listed by package type and arranged in order of decreasing f_T.

Heterojunction MESFETs

Device	Package type	Applications	Absolute maximum ratings				Electrical characteristics (T _a = 25 °C)									
			V _{DS} (V)	V _{GS0} (V)	I _D (mA)	P _D (mW)	I _{DSS} @ V _{DS}		Y _{fs} typ @ V _{DS} · I _D		NF typ/max @ V _{DS} · I _D · f		V _{DS} (V)	I _D (mA)	f (GHz)	G _a min/typ (dB)
							I _{DSS} (mA)	V _{DS} (V)	Y _{fs} typ (mS)	V _{DS} (V)	I _D (mA)	NF typ/max (dB)				
SGF16	Cross mold	X-band very low-noise amplifier	4	3	60	130	10 to 60	2	45	2	10	1.3/1.5	2	10	12	8.0/9.0
SGF17	Cross mold	X-band very low-noise amplifier	4	3	60	130	10 to 60	2	45	2	10	1.1/1.3	2	10	12	8.5/10.0
SGF18	Cross mold	X-band very low-noise amplifier	4	3	60	130	10 to 60	2	60	2	10	0.9/1.1	2	10	12	8.5/11.0
SGF19	Cross mold	X-band very low-noise amplifier	4	3	60	130	10 to 60	2	60	2	10	0.75/0.85	2	10	12	9.0/11.0
SGF21	Cross mold	X-band very low-noise amplifier	4	3	60	180	10 to 60	2	60	2	10	0.6/0.8	2	10	12	9.0/12.0