F [illegible]

15GN03MA

- High Cut−off Frequency: f_T = 1.5 GHz Typ
- High Gain: $|S21e|^2$ = 13 dB Typ (f = 1 GHz)
-

Publication Order Number:

I_C, COLLECTOR CURRENT (mA)

V_{CE}, COLLECTOR−TO−EMITTER VOLTAGE (V)

–

I_C, COLLECTOR CURRENT (mA)

V_{BE}, BASE−TO−EMITTER VOLTAGE (V)

–

h_{FE}, DC CURRENT GAIN

I_C, COLLECTOR CURRENT (mA)

–

f_T, GAIN−BANDWIDTH PRODUCT (GHz)

I_C, COLLECTOR CURRENT (mA)

–

Cob, OUTPUT CAPACITANCE (pF)

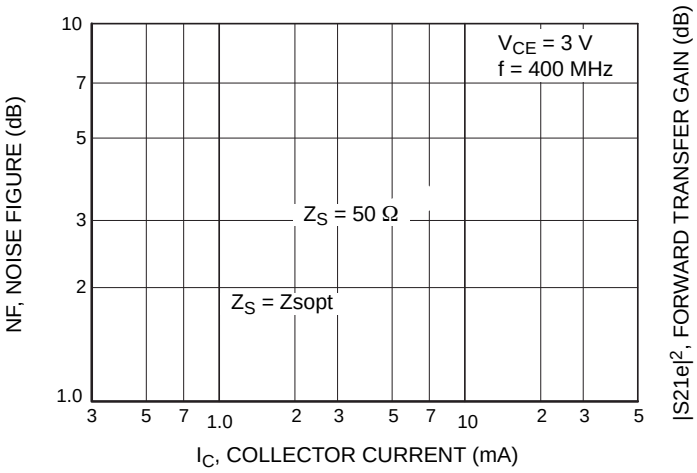
V_{CB}, COLLECTOR−TO−BASE VOLTAGE (V)

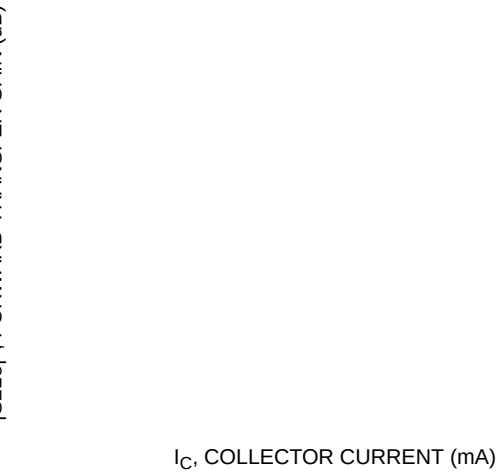
–

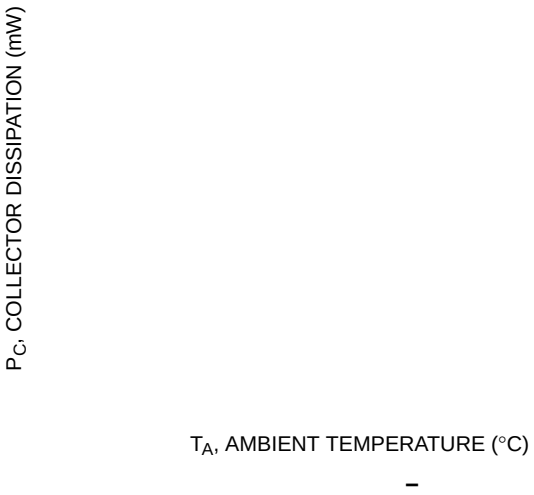
Cre, REVERSE TRANSFER CAPACITANCE (pF)

V_{CB}, COLLECTOR−TO−BASE VOLTAGE (V)

–


NF, NOISE FIGURE (dB)
10
7
5
3
2
1.0
3
5
7
1.0
2
3
5
7
10
2
3
5
V_{CE} = 3 V
f = 400 MHz
Z_S = 50 Ω
Z_S = Zsopt
I_C, COLLECTOR CURRENT (mA)


$|S21e|^2$, FORWARD TRANSFER GAIN (dB)
I_C, COLLECTOR CURRENT (mA)


P_C, COLLECTOR DISSIPATION (mW)
T_A, AMBIENT TEMPERATURE (°C)

Ω

Ω

	| |	∠	| |	∠	| |	∠	| |	∠
100	0.648	−111.11	13.755	118.07	0.025	49.17	0.710	−

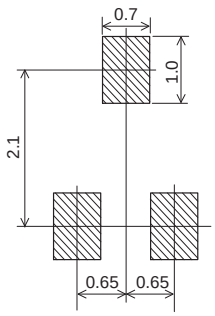
Ω

	| |	∠	| |	∠	| |	∠	| |	∠
100	0.574	−141.90	16.518	106.28	0.017	56.75	0.594	−17.60
200	0.584	−161.69	8.702	92.68	0.024	65.21	0.541	−16.13
300	0.587	−169.42	5.851	85.19	0.033	71.56	0.531	−16.69
400	0.596	−174.12	4.433	79.42	0.042	77.01	0.532	−18.41
500	0.599	−177.29	3.570	74.54	0.053	82.34	0.536	−20.78
600	0.609	179.93	2.987	70.07	0.063	84.47	0.545	−23.60
700	0.616	177.48	2.574	65.88	0.073	86.83	0.550	−26.54
800	0.621	175.27	2.268	61.99	0.085	88.18	0.559	−29.78
900	0.631	173.12	2.033	58.20	0.096	90.72	0.571	−33.08
1000	0.638	170.96	1.845	54.81	0.111	91.80	0.582	−36.46

Ω

	| |	∠	| |	∠	| |	∠	| |	∠
100	0.578	−151.54	16.222	102.78	0.015	58.15	0.564	−16.24
200	0.596	−166.79	8.428	90.13	0.023	71.59	0.524	−14.78
300	0.603	−172.63	5.641	82.89	0.033	76.27	0.520	−15.94
400	0.611	−176.28	4.254	77.21	0.043	79.95	0.521	−17.71
500	0.618	−178.98	3.421	72.11	0.052	83.78	0.530	−20.31
600	0.629	178.44	2.851	67.60	0.064	86.83	0.538	−23.39
700	0.639	176.23	2.452	63.15	0.074	88.24	0.546	−26.40
800	0.647	174.01	2.155	59.33	0.087	89.54	0.555	−29.74
900	0.657	171.87	1.921	55.44	0.099	92.59	0.568	−33.37
1000	0.664	169.65	1.740	51.95	0.113	94.10	0.581	−36.94

Unit: mm



SC−70 / MCP3
CASE 419AJ
ISSUE O

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