

SIEMENS

BFP 193

Si NPN RF Bipolar Junction Transistor in SOT143 $V_{CE} = 3V$ $I_C = 10\text{ mA}$

Common Emitter S-Parameters: September 1992

f GHz	S11		S21		S12		S22	
	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
0.10	0.673	-68.6	22.95	143.4	0.029	60.3	0.820	-32.7
0.15	0.665	-92.3	19.44	130.9	0.037	51.4	0.701	-43.2
0.20	0.660	-109.9	16.49	121.6	0.042	45.5	0.602	-50.6
0.25	0.650	-123.2	14.07	114.5	0.046	41.9	0.524	-55.9
0.30	0.650	-132.9	12.18	109.1	0.049	39.8	0.465	-59.6
0.40	0.666	-146.1	9.65	101.8	0.054	35.3	0.392	-66.5
0.50	0.669	-158.2	7.98	94.9	0.055	34.2	0.329	-71.0
0.60	0.663	-166.6	6.74	89.6	0.058	35.3	0.292	-73.1
0.70	0.658	-173.4	5.81	85.1	0.061	36.6	0.268	-75.0
0.80	0.657	-178.1	5.11	81.3	0.066	36.9	0.257	-76.8
0.90	0.676	177.6	4.59	77.9	0.069	34.9	0.246	-81.2
1.00	0.684	172.2	4.15	74.1	0.069	35.8	0.229	-83.8
1.20	0.687	163.7	3.45	68.0	0.075	38.6	0.213	-87.6
1.40	0.692	156.8	2.98	62.7	0.081	38.6	0.210	-93.7
1.50	0.692	153.2	2.79	59.8	0.084	39.5	0.210	-95.6
1.60	0.696	149.9	2.62	56.8	0.087	40.2	0.212	-97.8
1.80	0.703	143.4	2.34	51.1	0.095	40.6	0.216	-101.4
2.00	0.714	138.0	2.09	45.9	0.101	40.5	0.219	-106.2
2.50	0.758	126.1	1.66	34.4	0.118	40.5	0.240	-122.1
3.00	0.763	113.6	1.38	23.1	0.136	38.6	0.269	-131.3

Tabelle 2.2 s-Parameter des HF-Transistors BFP 193 nach Betrag und Phase (MAG=magnitude; ANG= Winkel) am Arbeitspunkt $I_c = 10\text{ mA}$, $U = 3\text{ V}$ (mit freundlicher Genehmigung der SIEMENS AG München)