

# Surface Mount Devices

## Wideband Transistors (cont.)

Type No.	Package Outline	V <sub>CEO</sub> (V)	Ratings I <sub>C</sub> (mA)	P <sub>tot</sub> (mW)	f <sub>T</sub> (GHz)	NF (dB)	Characteristics @ f (MHz)	G <sub>UM</sub> (dB)	@ f (MHz)	Pinout See Section VII
<b>NPN (cont.)</b>										
BFS17W	SOT-323	15	50	300	1.6	—	—	—	—	AC
BFS25A	SOT-323	5	6.5	32	5	—	—	—	—	AC
BFS505	SOT-323	15	18	150	9	—	—	—	—	AC
BFS520	SOT-323	15	70	300	9	—	—	—	—	AC
BFS540	SOT-323	15	120	350	9	—	—	—	—	AC
BFT25	SOT-23	5	6.5	50	2.3	3.8	500	18	500	F
BFT25A	SOT-23	5	6.5	50	5	1.8	2000	—	—	F
PMBTH10	SOT-23	25	—	300	0.65	—	—	—	—	F
<b>PNP</b>										
BFG31	SOT-223	15	100	1000	5	—	—	12	800	S
BFG55	SOT-223	18	150	1000	4	—	—	11	800	S
BFQ149	SOT-89	15	75	500	5	3.75	500	12	500	AE
BFT92	SOT-23	15	25	200	5	2.7	500	18	500	F
BFT92AW	SOT-323	15	35	300	5	2.5	500	18	500	AC
BFT93	SOT-23	12	35	200	5	2.4	500	16.5	500	F
BFT93AW	SOT-323	12	50	300	5	2.4	500	16.5	500	AC
PMBTH81	SOT-23	20	40	400	0.6	—	—	—	—	F

## Low Noise Transistors

Type	Package	Ratings			NF		h <sub>FE</sub>		V <sub>CE</sub> (sat)		f <sub>T</sub>	Pinout See Section VII
		V <sub>CEO</sub> V	V <sub>CBO</sub> V	I <sub>C</sub> mA	typ at I <sub>C</sub> dB	μA	min./max. at I <sub>C</sub> /V <sub>CE</sub> mA/V	max. at I <sub>C</sub> /I <sub>B</sub> V	mA/mA	typ. MHz		
<b>NPN</b>												
PMBT5089	SOT-23	25	30	50	1.2	100	400/-	10/5	0.5	10/1	100	F
BC849B	SOT-23	30	30	200	1.2	200	200/450	2/5	0.25	10/0.5	300	F
BC849C	SOT-23	30	30	200	1.2	200	420/800	2/5	0.25	10/0.5	300	F
PMBT5088	SOT-23	30	35	50	1.0	100	300/-	10/5	0.5	10/1	100	F
BCF32	SOT-23	32	32	100	1.2	200	200/450	2/5	0.25	10/0.5	300	F
BCF33	SOT-23	32	32	100	1.2	200	420/800	2/5	0.25	10/0.5	300	F
BC850B	SOT-23	45	50	200	1.0	200	200/450	2/5	0.25	10/0.5	300	F
BC850C	SOT-23	45	50	200	1.0	200	420/800	2/5	0.25	10/0.5	300	F
BCF81	SOT-23	45	50	100	1.2	200	420/800	2/5	0.25	10/0.5	300	F
PMBT6429	SOT-23	45	55	200	0.5	100	500/-	10/5	0.2	10/0.5	100	F
PMBT6428	SOT-23	50	60	200	0.5	100	250/-	10/5	0.2	10/0.5	100	F
<b>PNP</b>												
BC859A	SOT-23	30	30	100	1.2	200	125/250	2/5	0.3	10/0.5	150	F
BC859B	SOT-23	30	30	100	1.2	200	220/475	2/5	1.0	10/0.5	150	F
BC859C	SOT-23	30	30	100	1.2	200	420/800	2/5	0.3	10/0.5	150	F
BCF29	SOT-23	32	32	100	1.0	200	120/260	2/5	0.3	10/0.5	150	F
BCF30	SOT-23	32	32	100	1.0	200	215/500	2/5	0.3	10/0.5	150	F
BC860A	SOT-23	45	50	100	1.0	200	125/250	2/5	0.3	10/0.5	150	F
BC860B	SOT-23	45	50	100	1.0	200	220/475	2/5	0.3	10/0.5	150	F
BC860C	SOT-23	45	50	100	1.0	200	420/800	2/5	0.3	10/0.5	150	F
BCF70	SOT-23	45	50	100	1.0	200	215/500	2/5	0.3	10/0.5	150	F