

## Surface Mount Devices

### Darlington Transistors (cont.)

Type	Package	Ratings			h <sub>FE</sub>		V <sub>CE(sat)</sub>		f <sub>T</sub>	Pinout See Section VII
		V <sub>CEO</sub> V	V <sub>CBO</sub> V	I <sub>C</sub> mA	min. 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	
PNP (cont.)										
BSP60	SOT-223	60	45	500	2,000	500/10	1.3	500/0.5	—	R
BST60	SOT-89	60	45	500	2,000	500/10	1.3	500/0.5	—	F
BSP61	SOT-223	80	60	500	2,000	500/10	1.3	500/0.5	—	R
BST61	SOT-89	80	60	500	2,000	500/10	1.3	500/0.5	—	F
BSP62	SOT-223	90	80	500	2,000	500/10	1.3	500/0.5	—	R
BST62	SOT-89	90	80	500	2,000	500/10	1.3	500/0.5	—	F

### High-Frequency Transistors

Type	Package	Ratings			h <sub>FE</sub>		NF		f <sub>T</sub>	C <sub>re</sub>	Pinout See Section VII
		V <sub>CEO</sub> V	V <sub>CBO</sub> V	I <sub>C</sub> mA	min./max. at I <sub>C</sub> /V <sub>CE</sub> mA/V		typ. at I <sub>C</sub> dB mA		typ. MHz	typ. pF	
NPN											
BFS18	SOT-23	20	30	30	35/125	1/10	4	1	200	0.85	F
BFS19	SOT-23	20	30	30	65/225	1/10	4	1	260	0.85	F
BFS20	SOT-23	20	30	25	40/-	7/10	—	—	450	0.35	F
BF747	SOT-23	20	30	50	—	—	1200	—	—	—	F
BF840	SOT-23	40	40	25	—	—	1.5	1	380	0.3	F
BF841	SOT-23	40	40	25	—	—	2.0	1	380	0.3	F
PNP											
BF579	SOT-23	20	20	25	20/-	10/10	4.5	10	1350	0.46	F
BF536	SOT-23	30	30	25	25/-	1/10	5	1	350	—	F
BF767	SOT-23	30	30	20	15/-	3/10	4	3	900	0.3	F
BF824	SOT-23	30	30	25	—	—	3	2	440	0.1	F
BF660	SOT-23	30	40	25	30/-	3/10	—	—	650	0.65	F
BF569	SOT-23	35	40	30	25/-	3/10	4.5	3	900	0.33	F
BF550	SOT-23	40	40	25	50/-	1/10	2	1	325	0.5	F

### Wideband Transistors

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
NPN										
BF547	SOT-23	20	50	150	1.2	4.5	100	20	100	F
BF547W	SOT-323	20	50	300	1.6	—	—	20	100	AC
BF747	SOT-23	20	50	300	1.2	—	—	13	500	F
BF747W	SOT-323	20	50	300	1.6	—	—	20	100	AC
BFG16A	SOT-223	25	150	1000	1.5	—	—	10	500	S
BFG17A	SOT-143	15	25	300	2.8	2.5	800	15.5	800	Q
BFG25A/X	SOT-143	5	6.5	50	5	1.8	2000	—	—	X
BFG33	SOT-143	7	20	140	12	3	2000	12	2000	Q

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