

## FAIRCHILD TRANSISTORS

### SMALL SIGNAL

**HIGH SPEED SWITCHING TRANSISTORS (BY ASCENDING V<sub>CEO</sub>) (Cont'd)**  
(FOR MEDIUM SPEED—SEE GENERAL PURPOSE SECTION)

Item	DEVICE NO. Polarity		V <sub>CEO</sub> (V <sub>CER</sub> ) V Min	t <sub>s</sub> @ I <sub>C</sub> (t <sub>off</sub> ) ns mA		h <sub>FE</sub> @ I <sub>C</sub> mA		V <sub>CE(sat)</sub> @ I <sub>C</sub> V mA		f <sub>T</sub> MHz Min	C <sub>ob</sub> pF Max	P <sub>D</sub>		Package No.
	NPN	PNP		Min	Max	Min/Max	Max	Max	Max			25°C mW	25°C W	
1		2N5910	20	20	10	30/120	10	0.15	10	700	3.0	200	0.5	TO-106
2		2N3209	20	(90)	30	30/120	30	0.20	30	400	5.0	360	1.2	TO-18
3		2N5023	30	(90)	500	40/100	500	0.35	500	200	25	1000	4.0	TO-39
4	2N3724		30	(60)	500	60/150	100	0.20	100	300	12	800	3.5	TO-39
5	2N4013		30	(60)	500	60/150	100	0.20	100	300	12	360	1.2	TO-18
6	BSX32		40	(60)	500	60/150	100	0.25	100	300	10	800	3.5	TO-39
7	2N3253		40	(70)	500	25/-	150	0.35	150	175	12	1000	5.0	TO-39
8		2N3467	40	(90)	500	40/120	500	0.50	500	175	25	1000	5.0	TO-39
9		2N5022	50	(90)	500	25/100	500	0.40	500	170	25	1000	4.0	TO-39
10		2N3468	50	(90)	500	25/75	500	0.60	500	150	25	1000	5.0	TO-39
11	2N4047		50	(60)	500	40/150	100	0.26	100	250	10	800	3.5	TO-39
12	2N3725		50	(60)	500	60/150	100	0.26	100	300	10	800	3.5	TO-39
13	2N4014		50	(60)	500	60/150	100	0.26	100	300	10	360	1.2	TO-18
14	2N3444		50	(70)	500	20/60	500	0.60	500	150	12	1000	5.0	TO-39

**GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS**  
(BY ASCENDING V<sub>CEO</sub>)  
(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

Item	DEVICE NO. Polarity		V <sub>CEO</sub> (V <sub>CER</sub> ) V Min	h <sub>FE</sub> (h <sub>fe</sub> ) mA		V <sub>CE(sat)</sub> V @ I <sub>C</sub> mA		C <sub>ob</sub> pF Max	f <sub>T</sub> MHz Min	t <sub>off</sub> ns Max	P <sub>D</sub>		Package No.
	NPN	PNP		Min	Min/Max	Max	Max				25°C mW	25°C W	
15	2N5128		12	35/350	50	0.25	150	10	200	—	300	0.70	TO-105
16		PN5139	20	-/30	10	0.20	10	5.0	300	—	625	1.0	TO-92
17		2N5142	20	-/30	50	0.50	50	30	100	200	300	0.70	TO-105
18		MPS6563	20	50/200	350	0.50	350	30	60	—	625	1.0	TO-92
19	2N5223		20	50/800	2.0	0.70	2.0	4.0	150	—	625	—	TO-92
20	2N5136		20	20/400	150	0.25	150	35	40	—	220	0.60	TO-105
21	BFY52		20	60/-	150	0.35	150	12	200	—	800	2.86	TO-39
22	MPS6561		20	50/200	350	0.50	150	30	60	—	625	1.0	TO-92
23	MPS6515		25	250/500	2.0	0.50	2.0	3.5	—	—	625	1.0	TO-92
24	MPS2925		25	(235/470)	2.0	—	—	12	—	—	625	1.0	TO-92
25	MPS3392		25	150/300	2.0	—	—	3.5	—	—	625	1.0	TO-92
26	MPS6514		25	150/300	2.0	0.50	2.0	3.5	—	—	625	1.0	TO-92