



WE
USUALLY
START
SOMETHING
BIG



AND NOW WE'RE STARTING SOMETHING BIG IN AUSTRALIA

We make some of the smallest products in the world — transistors and diodes and microcircuits. They're small — but without them the big rockets won't fly.

Fairchild Australia has built a new laboratory at Croydon in Victoria to supply not only the needs of the electronic industry in Australia but also vital export markets in Canada, America and Europe. It is ready now to expand into areas which will one

day become electronically essential to Australia: for instance into the manufacture of monolithic integrated circuits.

By 1970, more than 80% of all TV receivers will be wholly or partly transistorised. The new Fairchild laboratory can provide now all the transistors needed.

FAIRCHILD
AUSTRALIA PTY. LTD.

Military

Silicon Transistors and Diodes: high performance/high reliability devices with the added margin of protection afforded by Planar* and Planar II* technology, and now available at Germanium prices. For instrumentation, computers, arithmetic units, and various amplifiers and switching applications.

*PLANAR and PLANAR II are patented FAIRCHILD processes.

PART No.	Package*	V _{CB0} (volts)	V _{EB0} (volts)	h _{FE} (typ.)	V _{CE} SAT (volts) max.	f _r (typ.) mc
2N709	TO-18	15	4-0	55 @ 10 mA	0-25 @ 5 mA	800 @ 5 mA
2N918	TO-18 4 leaded	30	3-0	50 @ 3-0 mA	0-4 @ 10 mA	900 @ 3 mA
2N2369A	TO-18	40	4-5	66 @ 10 mA	0-2 @ 10 mA	675 @ 10 mA
2N2483	TO-18	60	6-0	80 @ 10 μA	0-35 @ 1-0 mA	20 @ 50 μA
2N2484	TO-18	60	6-0	290 @ 10 μA	0-35 @ 1-0 mA	20 @ 50 μA
2N3013	TO-52	40	5-0	60 @ 30 mA	0-5 @ 300 mA	550 @ 30 mA
2N3014	TO-52	40	5-0	60 @ 30 mA	0-18 @ 30 mA	550 @ 30 mA
2N3107	TO-5	100	7-0	190 @ 150 mA	1-0 @ 1A	86 @ 50 mA
2N3108	TO-5	100	7-0	70 @ 150 mA	0-25 @ 150 mA	86 @ 50 mA
2N3109	TO-5	80	7-0	190 @ 150 mA	1-0 @ 1A	86 @ 50 mA
2N3110	TO-5	80	7-0	70 @ 150 mA	0-25 @ 150 mA	86 @ 50 mA
2N3114	TO-5	150	5-0	60 @ 30 mA	1-0 @ 50 mA	54 @ 30 mA
2N3137	TO-5	40	4-0	70 @ 50 mA	0-3 @ 50 mA	750 @ 50 mA
2N3299	TO-5	60	5-0	75 @ 150 mA	0-6 @ 500 mA	400 @ 50 mA
2N3300	TO-5	60	5-0	220 @ 150 mA	0-6 @ 500 mA	400 @ 50 mA
2N3301	TO-18	60	5-0	75 @ 150 mA	0-22 @ 150 mA	400 @ 50 mA
2N3302	TO-18	60	5-0	220 @ 150 mA	0-22 @ 150 mA	400 @ 50 mA
2N3304	TO-18	-6-0	-4-0	63 @ 10 mA	-0-16 @ 10 mA	700 @ 10 mA
2N3502	TO-18	-60	-5-0	250 @ 50 mA	-0-25 @ 50 mA	250 @ 50 mA
2N3503	TO-5	-60	-5-0	150 @ 150 mA	-0-25 @ 50 mA	250 @ 50 mA
2N3504	TO-18	-45	-5-0	150 @ 150 mA	-0-25 @ 50 mA	250 @ 50 mA
2N3505	TO-5	-45	-5-0	150 @ 150 mA	-0-25 @ 50 mA	250 @ 50 mA
2N3962	TO-18	-60	-6-0	210 @ 10 μA	-0-25 @ 10 mA	50 @ 0-5 mA
2N3963	TO-18	-80	-6-0	210 @ 10 μA	-0-25 @ 10 mA	50 @ 0-5 mA
2N3964	TO-18	-45	-6-0	320 @ 10 μA	-0-25 @ 10 mA	60 @ 0-5 mA
2N4030	TO-5	-60	-5-0	80 @ 100 mA	-0-15 @ 150 mA	150 @ 50 mA
2N4032	TO-5	-60	-5-0	160 @ 100 mA	-0-15 @ 150 mA	200 @ 50 mA

*All metal package.

PART No.	Package*	V _{CB0} (volts)	V _{EB0} (volts)	h _{FE} (typ.)	V _{CE} SAT (volts) max.	f _r (typ.) mc
2N4034	TO-18	-40	-5-0	150 @ 10 mA	-0-14 @ 10 mA	550 @ 10 mA
2N4035	TO-18	-40	-5-0	200 @ 10 mA	-0-14 @ 10 mA	600 @ 10 mA
FT7207A	7-16" Hex. isolated case	120	8-0	75 @ 2A	0-6 @ 2A	90 @ 500 mA
FT7207B	7-16" Hex. isolated case	100	8-0	75 @ 2A	0-6 @ 2A	90 @ 500 mA
FT34A	TO-59	150	6-0	85 @ 2A	0-6 @ 10A	100 @ 500 mA
FT34B	TO-59	120	6-0	210 @ 2A	0-6 @ 10A	100 @ 500 mA
FT34C	TO-5	150	6-0	85 @ 2A	1-0 @ 5A	100 @ 500
FT34D	TO-5	120	6-0	210 @ 2A	1-0 @ 5A	100 @ 500
AY6105	TO-72	30	3-0	80 @ 4 mA	3-0 @ 10 mA	500 @ 4 mA

PART No.	Package	Type	B _V _{DSS} volts (min)	B _V _{ESS} volts (min)	Y _{fs} (min)	Y _{ds(on)} (max)
2N3277	TO-33 Metal	P. Channel BI-Polar	-25	-25	100 μmhos	—
2N3278	TO-33 Metal	P. Channel BI-Polar	-25	-25	150 μmhos	—
2N4065	TO-18 4 lead	P. Channel M.O.S.	-30	±25	400 μmhos	1-5 k.OHMS
2N4120	TO-18 4 lead	P. Channel M.O.S.	-30	±25	700 μmhos	1-0 k.OHMS
2N4066	TO-5 6 lead	dual P. Channel M.O.S.	-30	±25	1-5 mmhos	300 OHMS
2N4067	TO-5 6 lead	dual P. Channel M.O.S.	-30	±25	2-5 mmhos	250 OHMS
F1100	TO-18 4 lead	P. Channel M.O.S.	-30	±25	300 μmhos	1-0 k.OHMS
F10049	TO-5 6 lead	dual P. Channel M.O.S.	-30	±25	400 μmhos	250 OHMS

PART No.	Package	B _V	V _F = I _V @	C ₀ @ 0V.	T _{rr}
FD100	DO7	75	10mA	2-0pf	2-0nsec.
FD200	DO7	200	100mA	5-0pf	50nsec.
FD300	DO7	150	200mA	6-0pf	—
FD600	DO7	75	200mA	3-0pf	4nsec.
FD700	DO7	30	50mA	0-75pf	0-7nsec.



Industrial/Professional

Silicon Transistors and Diodes: NPN, PNP, Field Effect, for switching, R.E. non-saturated switching, Power amplifiers. All manufactured using Planar*, Planar Epitaxial, M.O.S., or Fairchild's latest technological break-through: Planar II*. For use in high performance/high reliability weapons systems and space instrumentation.

*PLANAR and PLANAR II are patented FAIRCHILD processes.

PART No.	Package	V _{CB0} (volts)	V _{EB0} (volts)	hFE (typ.)	V _{CE} SAT (volts) max.	f _T (typ.) mc
2N3563	TO-18 epoxy	30	2-0	50 @ 8 mA	0-1 @ 10 mA	900
2N3564	TO-18 epoxy	30	4-0	70 @ 15 mA	0-3 @ 20 mA	750
2N3565	TO-18 epoxy	30	6-0	150-600 @ 1 mA	0-35 @ 1 mA	60
2N3566	TO-5 epoxy	40	5-0	400 @ 10 mA	1-0 @ 100 mA	60
2N3567	TO-5 epoxy	80 V _{CE0} 40	5-0	80 @ 150 mA	0-25 @ 150 mA	80
2N3568	TO-5 epoxy	80 V _{CE0} 60	5-0	80 @ 150 mA	0-25 @ 150 mA	80
2N3569	TO-5 epoxy	80	5-0	150 @ 150 mA	0-25 @ 150 mA	80
2N3638	TO-5 epoxy	-25	-4-0	67 @ 50 mA	-0-25 @ 50 mA	200
2N3638A	TO-5 epoxy	-25	-4-0	110 @ 150 mA	-0-25 @ 50 mA	200
2N3639	TO-18 epoxy	-6	-4-0	63 @ 10 mA	-0-16 @ 10 mA	750
2N3640	TO-18 epoxy	-12	-4-0	63 @ 10 mA	-0-2 @ 10 mA	750
2N3641	TO-5 epoxy	60 V _{CE0} 30	5-0	75 @ 150 mA	0-22 @ 150 mA	400
2N3642	TO-5 epoxy	60 V _{CE0} 45	5-0	75 @ 150 mA	0-22 @ 150 mA	400
2N3643	TO-5 epoxy	60 V _{CE0} 30	5-0	220 @ 150 mA	0-22 @ 150 mA	400
2N3644	TO-5 epoxy	-45	-5-0	150 @ 150 mA	-0-4 @ 150 mA	250
2N3645	TO-5 epoxy	-60	-5-0	150 @ 150 mA	-0-4 @ 150 mA	250
2N3646	TO-18 epoxy	40	5-0	60 @ 30 mA	0-2μ @ 30 mA	550
2N3691	TO-18 epoxy	35	4-0	40-160 @ 10 mA	0-7μ @ 10 mA	300
2N3692	TO-18 epoxy	35	4-0	100-400 @ 10 mA	0-7v @ 10 mA	300
2N3693	TO-18 epoxy	45	4-0	110 @ 10 mA	—	350
2N3694	TO-18 epoxy	45	4-0	200 @ 10 mA	—	350
2N3919	TO-3 metal	120	6-0	85 @ 2 A	1-2 @ 10 A	100
2N3920	TO-3 metal	120	6-0	210 @ 2A	1-2 @ 10 A	100
2N4121	TO-18 epoxy	-40	-5-0	150 @ 10 mA	-0-14 @ 10 mA	550
2N4122	TO-18 epoxy	-40	-5-0	200 @ 10 mA	-0-14 @ 10 mA	600
2N4248	TO-18 epoxy	-40	-5-0	75 @ 100 μA	-0-25 @ 10 mA	50
2N4249	TO-18 epoxy	-60	-5-0	180 @ 100 μA	-0-25 @ 10 mA	50

PART No.	Package	V _{CB0} (volts)	V _{EB0} (volts)	hFE (typ.)	V _{CE} SAT (volts) max.	f _T (typ.) mc
2N4250	TO-18 epoxy	-40	-5-0	400 @ 100 μA	-0-25 @ 10 mA	50
AY1110	TO-5 epoxy	-25	-4-0	150 @ 10 mA	-0-25 @ 50 mA	190
AY6101	TO-5 metal	45	5-0	75 @ 150 mA	0-22 @ 150 mA	400
AY6102	TO-5 metal	-40	-4-0	60 @ 150 mA	-0-4 @ 150 mA	200
AY6103	TO-18 metal	12	4-0	70 @ 10 mA	0-25 @ 10 mA	800
AY6104	TO-18 metal	-6	-4-0	60 @ 10 mA	-0-2 @ 10 mA	700
AY8105	TO-5 metal	60	5-0	100 @ 300 mA	0-75 @ 1 A	40
AY8106	TO-5 metal	60	5-0	75 @ 300 mA	0-75 @ 1 A	40

DIODES

PART No.	Package	BV	V _F	C _O @ 0.v.	T _{rr}
AN1104	TO-18 epoxy	100	1-1 @ 100 mA	6-5pf	70nsec.
AN1105	TO-18 epoxy	150	1-1 @ 100 mA	6-5pf	70nsec.
AN6101	DO-7 glass	75	1-1 @ 20 mA	2-5pf	5nsec.
AN6201	DO-7 glass	150	1-15 @ 200 mA	6pf	60nsec.

The products listed on these 3 pages are the latest preferred selection from the FAIRCHILD range. Many other silicon devices are available. If the product you need is not listed, call your local representative for immediate service.



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Consumer

Silicon Transistors and Diodes: Planar* and Planar II* technology allows us to offer high-performance, low-cost NPN and PNP transistors and diodes. You can buy it EX-STOCK from FAIRCHILD today. Or wait until 1970 to get it from other Semiconductor manufacturers.

*PLANAR and PLANAR II are patented FAIRCHILD processes.

PART No.	Package	V _{CB0} (volts)	V _{EB0} (volts)	h _{FE} (typ.)	V _{CE} SAT (volts) max.	f _T (typ.) mc
SE1001	TO-18 epoxy	45	4-0	80 @ 10 mA	—	350
SE1002	TO-18 epoxy	45	4-0	200 @ 10 mA	—	350
SE1010	TO-18 epoxy	30	4-0	35 @ 2 mA	0-3 @ 10 mA	500
SE2001	TO-18 epoxy	35	4-0	100 @ 10 mA	0-7 @ 10 mA	300
SE2002	TO-18 epoxy	35	4-0	200 @ 10 mA	0-7 @ 10 mA	300
SE3001	TO-18 epoxy	30	2-0	50 @ 8 mA	0-6 @ 10 mA	P ₀ 2mW @ 800 mc
SE3002	TO-18 epoxy	30	2-0	50 @ 8 mA	0-6 @ 10 mA	P ₀ 8mW @ 930 mc
SE3030	TO-3 metal	150	5-0	150 @ 500 mA	1-0 @ 10 A	100
SE3031	TO-3 metal	150	5-0	125 @ 500 mA	1-8 @ 10 A	100
SE3032	TO-3 metal	60	5-0	150 @ 500 mA	1-2 @ 10 A	100
SE3033	TO-3 metal	60	5-0	120 @ 500 mA	1-8 @ 10 A	100
SE3035	TO-3 metal	40	5-0	150 @ 500 mA	1-2 @ 1 A	50
SE4001	TO-18 epoxy	30	6-0	220 @ 1-0 mA	0-35 @ 1-0 mA	50
SE4002	TO-18 epoxy	30	6-0	350 @ 1-0 mA	0-35 @ 1-0 mA	70
SE4010	TO-18 epoxy	30	6-0	350 @ 1-0 mA	0-35 @ 1-0 mA	N.F. 3db
SE5001	TO-18 epoxy	40	4-0	PG @ 45 mc 28 db	AGC @ 45 mc 8 mA	600
SE5002	TO-18 epoxy	40	4-0	PG @ 45 mc 28 db	AGC @ 45 mc 9-5 mA	600
SE5003	TO-18 epoxy	40	4-0	PG @ 200 mc 18 db	AGC @ 200 mc 9-0 mA	600
SE5020	TO-18 metal	20	3-0	NF @ 200 mc 2-8 db	PG @ 200 mc 25db	Cre (typ) 0-37
SE5021	TO-18 metal	20	3-0	NF @ 200 mc 3-5 db	PG @ 200 mc 25db	Cre (typ) 0-37pf
SE5022	TO-18 metal	20	3-0	—	PG @ 200 mc 21db	Cre (typ) 0-37pf
SE5023	TO-18 metal	20	3-0	NF @ 45 mc 3-0 db	PG @ 45 mc 25-5db	Cre (typ) 0-37pf
SE5024	TO-18 metal	20	3-0	NF @ 45 mc 3-0 db	PG @ 45 mc 25-5db	Cre (typ) 0-37pf
SE5025	TO-5 epoxy	30	3-0	Gpe @ 45 mc 28db	gpe 200 μmhos	Cre (typ) 0-65pf
SE6001	TO-5 epoxy	40	5-0	80 @ 10 mA	1-0 @ 100 mA	50
SE6002	TO-5 epoxy	40	5-0	250 @ 10 mA	1-0 @ 100 mA	50
SE7001	TO-5 metal	150	5-0	60 @ 30 mA	2-0 @ 50 mA	60

PART No.	Package	V _{CB0} (volts)	V _{EB0} (volts)	h _{FE} (typ.)	V _{CE} SAT (volts) max.	f _T (typ.) mc
SE7002	TO-5 metal	120	5-0	60 @ 30 mA	2-0 @ 50 mA	60
SE7010	TO-5 epoxy	150	6-0	90 @ 25 mA	1-0 @ 25 mA	90
SE8001	TO-5 metal	60	5-0	60 @ 150 mA	1-5 @ 1-0 A	60
SE8002	TO-5 metal	80	5-0	80 @ 150 mA	1-2 @ 1-0 A	40
AY8105	TO-5 metal	60	5-0	100 @ 300 mA	0-75 @ 1 A	40
AY8106	TO-5 metal	60	5-0	75 @ 300 mA	0-75 @ 1 A	40
AY1105	TO-5 epoxy	20	5-0	75 @ 250 mA	0-22 @ 150 mA	300
AY1106	TO-5 epoxy	-20	-4-0	70 @ 250 mA	-0-25 @ 50 mA	180

DIODES

PART No.	Package	BV	V _F @ 1v	C ₀ @ 0.v.	T _{rr}
AN1101	TO-18 epoxy	60	1-0 @ 10 mA	3pf	5nsec.
AN1102	TO-18 epoxy	COMP. DIODE	0-6-0-64 @ 3mA	—	—
AN1103	TO-18 epoxy	50	10 mA	5pf	50 nsec.

For superior silicon Planar* technology
—look to FAIRCHILD.

*Planar & Planar II are patented FAIRCHILD processes.



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