FAIRCHILD **CONDENSED CATALOG**

FAIRCHILD DIFFUSED SILICON TRANSISTORS AND DIODES

Providing an unmatched combination of speed, power and reliability in computer switching and in RF and video amplifiers and oscillators



Today's widespread preference for diffused silicon transistors in high-performance, high-reliability applications has resulted from their unique combination of characteristics: very high gain-bandwidth product, large power dissipation, low saturation resistance, uniformity of parameters and outstanding reliability (300° C stabilization is standard Fairchild production practice). Their high performance applies over a very wide range of current, frequency and temperature, hence one Fairchild type can replace numerous earlier, more restricted types. Fairchild pioneered large-scale production of diffused silicon transistors and today offers the broadest line.

TRANSISTORS—Fairchild Diffused Silicon Types

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Types	Description	JEDEC Outline	f _t Typical	^P c @ 25°C Case Temp.	h _f (Min.)		VCER	VCBO	V _{BE} SAT (Max.)	V _{CE} SAT (Max.)	ICB0 [†] @ 25°C (Max.)
2N696	General purpose types for switching, RF and DC applications over a wide	T0-5	90 mc	2 watts	20	60	40 V	60 V	1.3 V	1.5 V	1.0 μA
2N697	current range	10-5	120 mc	2 watts	40	120	40 V	60 V	1.3 V	1.5 V	1.0 μA
2N698	High voltage types particularly suited to	70.5	90 mc	2 watts	20	- 22	80 V	120 V	1.3 V	5 V	2.0 µA
2N699	High voltage types particularly suited to video amplifiers and RF oscillators	T0-5	120 mc	2 watts	40	120	80 V	120 V	1.3 V	5 V	2.0 μA
2N706	Logic transistor for very high speed switching in low current saturated circuits	T0-18	400 mc	1 watt	20	-	20 V	25 V	0.9 V	0.6 V	0.5 μA
2N707	VHF oscillator type	T0-18	45% @ 100 mc*	1 watt	9	-	28 V	56 V	0.9 V	0.6 V	5 μΑ
2N1131	PNP complements to the 2N696 and	70.5	50 mc	2 watts	15	45	-30 V	-40 V	-1.5 V	-1.5 V	1.0 μA
& 2N1132	2N697 suitable for identical uses in opposite polarity	T0-5	60 mc	2 watts	30	90	-30 V	-40 V	-1.5 V	-1.5 V	1.0 μA
2N1252	Low storage types optimized for high	T0-5	80 mc	2 watts	15	45	20 V	30 V	1.3 V	1.5 V	10 µA
2N1253	current saturated switching circuitry	10-5	100 mc	2 watts	30	90	20 V	30 V	1.3 V	1.5 V	10 µA
2N717	General purpose types for switching,	70.10	90 mc	1.5 watts	20	-	40 V	60 V	1.3 V	1.5 V	1.0 μA
2N718	RF and DC applications over a wide current range	T0-18	120 mc	1.5 watts	40	120	40 V	60 V	1.3 V	1.5 V	1.0 μA
2N1613	A UNIVERSAL TYPE: Fast switching (logic and high current) Amplifiers (low level, low noise, wideband, VHF power)	T0-5	100 mc	3 watts	30	-	40 V	75 V	1.3 V	1.5 V	25 mμA†

DIODES—Fairchild Diffused Silicon Types

Туре	Description	Reverse recovery time (Max.)	Maximum power dissipation (Max.)	Capacitance at 0 volts bias (Max.)	Breakdown voltage (Min.)	Reverse current (Max.)	Forward voltage drop at IF=10 ma (Max.)
FD-100	Ultra-fast computer diode	4 mµs	200 mW	2 µµf	75 V	.100 µA	1 V

Specification sheets available with comprehensive data on all types shown and on additional types announced subsequent to this printing.

FAIRCHILD SEMICONDUCTOR CORPORATION 545 WHISMAN ROAD / MOUNTAIN VIEW, CALIFORNIA / YORKSHIRE 8-8161 with manufacturing facilities in Mountain View — Palo Alto — San Rafael

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