

FAIRCHILD TRANSISTORS

POWER

POWER TRANSISTORS (BY I_{Cmax} , POLARITY AND ASCENDING V_{CE0}) (Cont'd)

Item	DEVICE NO. Polarity		V_{CE0} V Max	h_{FE} Min/Max	@ I_C A	$V_{CE(sat)}$ V Max	@ I_C A	f_T MHz Min(Typ)	$P_D(Max)$ W $T_C=25^\circ C$	Package No.
	NPN	PNP								
$I_C = 15.0$ A Max Continuous (Cont'd)										
1	2N6488	2N6491	80	20/150	5.0	1.3	5.0	5.0	75	TO-220
2	2N6577*		90	2K/20K	4.0	4.0	15	10	120	TO-3
$I_C = 16.0$ A Max Continuous										
3	2N5629		100	25/100	8.0	1.0	10	0.5	200	TO-3
4		2N6029	100	25/100	8.0	2.0	16	1.0	200	TO-3
5	2N5630		120	20/80	8.0	1.0	10	0.5	200	TO-3
6		2N6030	120	20/80	8.0	2.0	16	1.0	200	TO-3
7	2N5631		140	15/60	8.0	1.0	10	0.5	200	TO-3
8		2N6031	140	15/60	8.0	2.0	16	1.0	200	TO-3
$I_C = 20.0$ A Max Continuous										
9	2N3772		60	15/60	10	1.4	10	0.2	150	TO-3
10	2N5885	2N5883	60	20/100	10	1.0	15	4.0	200	TO-3
11	2N6282*	2N6285*	60	750/18K	10	2.0	10	4.0	160	TO-3
12	2N5039		75	20/100	10	1.0	10	60	140	TO-3
13	2N6283*	2N6286*	80	750/18K	10	2.0	10	4.0	160	TO-3
14	2N5886	2N5884	80	20/100	10	1.0	15	4.0	200	TO-3
15	2N5303		80	15/60	10	2.0	20	2.0	200	TO-3
16	2N5038		90	20/100	12	1.0	12	60	140	TO-3
17	2N6284*	2N6287*	100	750/18K	10	2.0	10	4.0	160	TO-3
$I_C = 30.0$ A Max Continuous										
18	2N3771		40	15/60	15	2.0	15	0.2	150	TO-3
19		2N4398	40	15/60	15	1.0	15	4.0	200	TO-3
20	2N5301		40	15/60	15	2.0	20	2.0	200	TO-3
21		2N4399	60	15/60	15	1.0	15	4.0	200	TO-3
22	2N5302		60	15/60	15	2.0	20	2.0	200	TO-3
23	SE9306	SE9406	60	1000/-	10	2.0	10	4.0	160	TO-3
24	SE9307	SE9407	80	1000/-	10	2.0	10	4.0	160	TO-3
25	MJ802	MJ4502	90	25/100	7.5	0.8	7.5	2.0	200	TO-3
26	SE9308	SE9408	100	1000/-	10	2.0	10	4.0	160	TO-3

*Darlington

FAIRCHILD TRANSISTORS

POWER

POWER SWITCHING TRANSISTORS (BY I_C max, POLARITY) (Cont'd)

Item	DEVICE NO. Polarity		V_{CE0} V Max	h_{FE} Min/Max	@ I_C A	Switching Times			@ I_C A Typ	P_D W $T_C=25^\circ C$	Package No.
	NPN	PNP				t_{on} μs Typ	t_s μs Typ	t_f μs Typ			
I_C Max = 20 A											
1	2N5038		90	20/100	10	0.30	0.75	0.15	10	140	TO-3
2	2N6282 ⁽¹⁾	2N6285 ⁽¹⁾	60	750/18K	10	.8/.6	3.3/2.5	4/1.5	10	160	TO-3
3	2N6283 ⁽¹⁾	2N6286 ⁽¹⁾	80	750/18K	10	.8/.6	3.3/2.5	4/1.5	10	160	TO-3
4	2N6284 ⁽¹⁾	2N6287 ⁽¹⁾	100	750/18K	10	.8/.6	3.3/2.5	4/1.5	10	160	TO-3
I_C Max = 30 A											
5	2N5301	2N4398	40	15/60	15	.35/.3	1.2/.7	.5/.4	10	200	TO-3

POWER GROOVE MOS TRANSISTORS

Item	DEVICE NO.		V_{DS} V Max	V_{DG} V Max	I_{GF} mA Max	I_D A Max	g_{fs} mV Min	Switching Times ⁽²⁾				P_D W Max	Package No.
	N-Channel	P-Channel						$t_{d(on)}$ ns Max	t_r ns Max	$t_{d(off)}$ ns Max	t_f ns Max		
6	VN46AF		40	40	2.0	2.0	170	5.0	5.0	5.0	5.0	12.5	Dynawatt
7	VN66AF		60	60	2.0	2.0	170	5.0	5.0	5.0	5.0	12.5	Dynawatt
8	2N6657		60	60	2.0	2.0	170	5.0	5.0	5.0	5.0	25	TO-3
9	FVN2		60	60	2.0	2.0	100	10	10	10	10	6.25	TO-39
10		FVP1	60	60	2.0	2.0	150	10	10	10	10	25	TO-3
11		FVP2	60	60	2.0	1.5	100	10	10	10	10	6.25	TO-39
12	VN88AF		80	80	2.0	2.0	170	5.0	5.0	5.0	5.0	12.5	Dynawatt
13	2N6658		90	90	2.0	2.0	170	5.0	5.0	5.0	5.0	25	TO-3
14	2N6661		90	90	2.0	2.0	170	5.0	5.0	5.0	5.0	6.25	TO-39

1. Darlington
2. $I_D = 1A$, $R_L = 25\Omega$