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*Consult Motorola if a direct replacement is necessary.

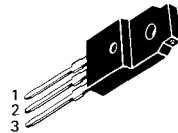
TABLE 5 — PLASTIC TO-220 (continued)

I _C Cont Amps Max	V _{CEO(sus)} Volts Min	Device Type		h _{FE} Min/Max	@ I _C Amp	Resistive Switching			f _T MHz Min	P _D (Case) Watts @ 25°C
		NPN	PNP			t _s μs Max	t _f μs Max	@ I _C Amp		
10	60	D44H7	D45H7	20 min	4					50
		D44H8	D45H8	40 min	4					50
			D45H9	40 min	4					50
		MJE2801T	MJE2955T	25/100	3					75
		MJE3055T	MJE2955T	20/70	4					75
		2N6387##	2N6667##	1k/20k	5				20#	65
	SE9300##	SE9400##	1k min	4				1#	70	
	80	BDX33B##	BDX34B##	750 min	3				3	70
		BD809	BD810	15 min	4				1.5	90
		D44E3##		1000 min	5	2 typ	0.5 typ	10		50
			D45H12	40 min	4					50
		2N6388##	2N6668##	1k/20k	5				20#	65
D44H10		D45H10	20 min	4	0.5 typ	0.14 typ	5	50 typ	50	
D44H11	D45H11	40 min	4	0.5 typ	0.14 typ	5	50 typ	50		
SE9301##	SE9401##	1k min	4				1#	70		
100	BDX33C##	BDX34C##	750 min	3				3	70	
	SE9302##	SE9402##	1k min	4				1#	70	
12	300	MJE13008		6/30	8	3	0.7	8	4	100
	400	MJE13009		6/30	8	3	0.7	8	4	100
15	30	D44VH1	D45VH1	20 min	4	0.7	0.09	8	50 typ	83
	40	2N6486	2N6489	20/150	5	0.6 typ	0.3 typ	5	5	75
	45	BDW39	BDW44	1 k min	5	1 typ	1.5 typ	5	4	85
		D44VH4	D45VH4	20 min	4	0.5	0.09	8	50 typ	83
	60	2N6487	2N6490	20/150	5	0.6 typ	0.3 typ	5	5	75
		BDW40	BDW45	1 k min	5	1 typ	1.5 typ	5	4	85
		D44VH7		20 min	4	0.5	0.09	8	50 typ	85
	80	2N6488	2N6491	20/150	5	0.6 typ	0.3 typ	5	5	75
BDW41		BDW46	1 k min	5	1 typ	1.5 typ	5	4	85	
D44VH10		D45VH10	20 min	4	0.5	0.09	8	50 typ	83	
100	BDW42	BDW47	1 k min	5	1 typ	1.5 typ	5	4	85	
120	BDW43	BDW48	1 k min	5	1 typ	1.5 typ	5	4	85	

|h_{FE}| @ 1 MHz, ## Darlington

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TABLE 6 — PLASTIC Full Pak (TO-220 Type)



CASE 221C-02

I _C Cont Amps Max	V _{CEO(sus)} Volts Min	Device Type		h _{FE} Min/Max	@ I _C Amp	Resistive Switching			f _T MHz Min	P _D (Case) Watts @ 25°C
		NPN	PNP			t _s μs Max	t _f μs Max	@ I _C Amp		
1	250	MJF47		30/150	0.3	2 typ	0.17 typ	0.3	10	28
5	100	MJF122##	MJF127##	2000 min	3	1.5 typ	1.5 typ	3	4#	28
			MJF6107	30/90	2	0.5 typ	0.13 typ	2	4	35
8	80	MJF102##	MJF107##	3000 min	3	1.5 typ	1.5 typ	3	4#	35
	150	MJF15030	MJF15031	40 min	3	1 typ	0.15 typ	3	30	35
10	60	MJF3055	MJF2955	20/100	4				2	40

|h_{FE}| @ 1 MHz, ## Darlington