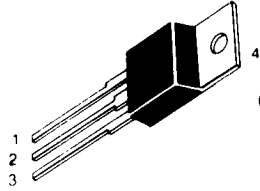


POWER TRANSISTORS — BIPOLAR PLASTIC (continued)

TO-220AB Package



CASE 221A-02
PLASTIC

- STYLE 1:
PIN 1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

I _C Cont Amps Max	V _{CE0} (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		
0.5	40		TIP62	15/100	0.5	0.9 typ	0.4 typ	0.5	3	15
	60		TIP62A	15/100	0.5	0.9 typ	0.4 typ	0.5	3	15
	80		TIP62B	15/100	0.5	0.9 typ	0.4 typ	0.5	3	15
	100		TIP62C	15/100	0.5	0.9 typ	0.4 typ	0.5	3	15
1	40	TIP29	TIP30	15/75	1	0.6 typ	0.3 typ	1	3	30
	60	TIP29A	TIP30A	15/75	1	0.6 typ	0.3 typ	1	3	30
	80	TIP29B	TIP30B	15/75	1	0.6 typ	0.3 typ	1	3	30
	100	TIP29C	TIP30C	15/75	1	0.6 typ	0.3 typ	1	3	30
	120	TIP29D	TIP30D	15/75	1	0.6 typ	0.3 typ	1	3	30
	140	TIP29E	TIP30E	15/75	1	0.6 typ	0.3 typ	1	3	30
	160	TIP29F	TIP30F	15/75	1	0.6 typ	0.3 typ	1	3	30
	250	TIP47		30/150	0.3	2 typ	0.18 typ	0.3	10	440
	300	TIP48	MJE5730	30/150	0.3	2 typ	0.18 typ	0.3	10	40
	350	TIP49	MJE5731	30/150	0.3	2 typ	0.18 typ	0.3	10	40
400	TIP50	MJE5732	30/150	0.3	2 typ	0.18 typ	0.3	10	40	
2	45	BD239	BD240	15 min	1				3	30
	60	BD239A TIP110	BD240A TIP115	15 min 500 min	1 2	1.7 typ	1.3 typ	2	3 25#	30 50
	80	TIP111 BD239B	TIP116 BD240B	500 min 15 min	2 1	1.7 typ	1.3 typ	2	25# 3	50 30
	100	BD239C TIP112	BD240C TIP117	15 min 500 min	1 2	1.7 typ	1.3 typ	2	3 25#	30 50
	400	BUX84				3.5	1.4	1		40
	450	BUX85				3.5	1.4	1		40
2.5	750	MJE12007		1.1 min	2		1.0	2	4 typ	65
	800	MJE8501		7.5 min	0.5	4	2	1		65
3	40	TIP31	TIP32	25 min	1	0.6 typ	0.3 typ	1	3	40
	45	BD241	BD242	25 min	1				3	40
	60	BD241A TIP31A	BD242A TIP32A	25 min 25 min	1 1	0.6 typ	0.3 typ	1	3 3	40 40
	80	TIP31B BD241B	TIP32B BD242B	25 min 25 min	1 1	0.6 typ	0.3 typ	1	3 3	40 40
	100	BD241C TIP31C	BD242C TIP32C	25 min 25 min	1 1	0.6 typ	0.3 typ	1	3 3	40 40
	120	TIP31D	TIP32D	25 min	1	0.6 typ	0.3 typ	1	3	40
	140	TIP31E	TIP32E	25 min	1	0.6 typ	0.3 typ	1	3	40
	140	TIP31F	TIP32F	25 min	1	0.6 typ	0.3 typ	1	3	40
	500	MJE16000A								
	750	MJE16032		4/7	3	2	1.5	2		80
850	MJE16034		4/7	3	2	1.5	2		80	
4	30	D44C1	D45C1	10 min	2	.5	.075	.1	50	30
		D44C2	D45C2	10 min 20 min	2 1	.5 .5	.050 .075	.1 .1	40 50	30 30
		D44C3	D45C3	20 min 20 min	1 2	.5 .5	.075 .050	.1 .1	50 40	30 30
	45	D44C4		10 min	2	.5	.075	.1	50	30
		D44C5	D45C5	20 min 20 min	1 2	.5 .5	.075 .050	.1 .1	50 40	30 30

* t_{off} #/t_{re}/ @ 1 MHz

(continued)

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