

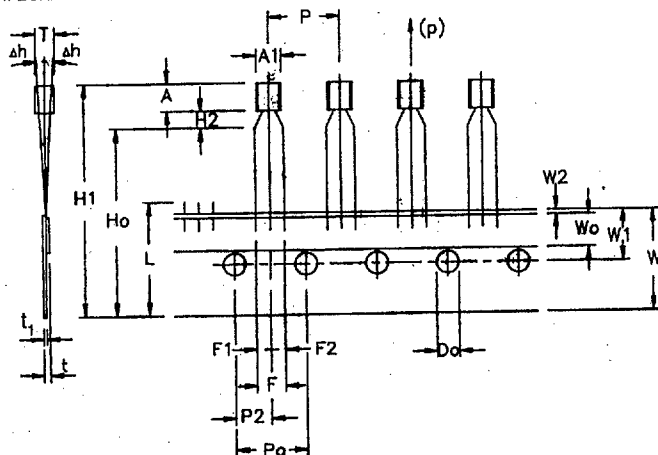
TO-92 Plastic Package Transistors (PNP)

CDIL

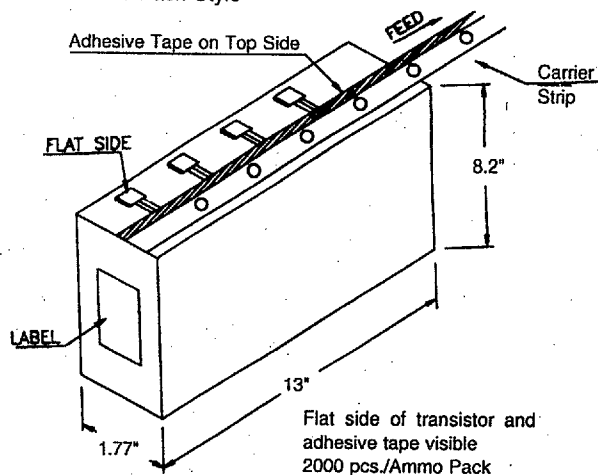
Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)															
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A) Max	I _{CBO} (μA) @ V _{CB} (V) Max	I _{CES} (μA) @ V _{CE} (V) Max	h _{FE} @ Min Max	I _C & (mA) V _{CE} (V)	V _{CE(SAT)} (V) Max Min	V _{BE(SAT)} (V) Max	I _C (mA) Max	C _{ob} (pF) Typ Max	f _t (MHz) Min	@ Typ	I _C (mA) Max	t _{on} (ns) Max	N _F (dB) Max	@ Freq (MHz) Max	C _{ob} (pF) Max	CDIL Case Style
2N5142	20	20	4	0.625	0.6		0.05 12	15 30	300 50 1	0.5 0.2	1.5 0.8	50 300	10	100		50	200				TO-92
2N5143	20	20	4	0.625	0.6		0.05 12	15 30	300 50 1	0.5 0.2	1.5 0.8	50 300	10	100		50	200				TO-92
2N5221	15	15	3	0.625	0.6	0.1 10		30 25	600 10 10	0.5	1.1	150	15	100		20					TO-92
2N5226	25	25	4	0.625	0.6	0.3 15		30 25	600 10 10	0.8	1	100	20	50		20					TO-92
2N5354	25	25	4	0.625	0.6	0.1 25		40	120 50 1	0.25		50	8								TO-92-1
2N5355	25	25	4	0.625	0.6	0.1 25		100	300 50 1	0.25		50	8								TO-92-1
2N5365	40	40	4	0.625	0.6	0.1 40	0.1 40	20 40 32	300 120 2 10	0.25 1	1.1 2	50 300	8	250		2					TO-92-1
2N5366	40	40	4	0.625	0.6	0.1 40	0.1 40	40 100 80	300 300 2 10	0.25 1	1.1 2	50 300	8	250		2					TO-92-1
2N5400	130	120	5	0.5	0.6	0.1 100		40 40 30	50 180 1 5	0.2 0.5	1 1	10 50	6	100	400	10		8			TO-92
2N5401	160	150	5	0.625	0.6	0.05 120		50 60 50	50 240 10 5	0.2 0.5	1 1	10 50	6	100	300	10		8			TO-92
2N5447	40	25	5	0.625	0.6	0.1 20		60	300 50 5	0.25		50	12	100		50					TO-92-4
2N5448	50	30	5	0.625	0.5	0.1 20		30	150 50 5	0.25		50	12	100		50					TO-92-4
2N5817	50	40	5	0.625	0.6	0.1 25	0.5 20	25 100	500 200 2 2	0.75	1.2	500	15	100		50					TO-92-4
2N6519	300	300	5	0.625	0.5	0.05 250		30 45 45 40 20	10 30 270 200 100 10	0.3 0.35 0.5 1	0.75 0.85 0.9	10 20 30 50	6	40	200	10	3.5				TO-92
2N6520	350	350	5	0.625	0.5	0.05 250		20 30 30 20 15	1 10 10 30 100 10	0.3 0.35 0.5 1	0.75 0.85 0.9	10 20 30 50	6	40	200	10	3.5				TO-92
BC204	50	45	5	0.625	0.1	0.05 45		50	450 2 5	0.3		10						10			TO-92
#BC212	60	50	5	0.35	0.1	0.015 30		40 60	0.01 2 5	0.6	1.4	100	6	280		10		10	0.001		TO-92-4
#BC214C	45	30	5	0.35	0.1	0.015 30		100 350	600 600 0.01 2 5	0.6 0.25 0.25	1.1 1.1 0.72	100 10 2	6	200 320		10		2	0.001		TO-92-4
BC252	30	25	5	0.35	0.1		0.1 20	120	800 2 5	0.3 0.65		10 100	6	360		10		10	0.001		TO-92-4
BC252A	30	25	5	0.35	0.1		0.1 20	120	220 2 5	0.3 0.65		10 100	6	360		10		10	0.001		TO-92-4
BC252B	30	25	5	0.35	0.1		0.1 20	180	460 2 5	0.3 0.65		10 100	6	360		10		10	0.001		TO-92-4

hFE values are hfe(min) and hfe(max) at 1.0 KHz.

MECHANICAL DATA



Ammo Pack Style



Item	Symbol	Specification				Remarks
		Min.	Nom.	Max.	Tol.	
Body Width	A1	4.0		4.8		Cumulative Pitch Error 1.0 mm/20 Pitch To be measured at bottom of Clinch
Body Height	A	4.8		5.2		
Body Thickness	T	3.9		4.2		
Pitch of Component	P		12.7		±1	
Feed Hole Pitch	Po		12.7		±0.3	
Feed Hole Centre to Component Centre	P2		6.35		±0.4	At Top of Body
Distance between Outer Leads	F		5.08		±0.6	
Component Alignment	Δh		0	1	-0.2	
Tape Width	W		18		±0.5	
Hold-Down Tape Width	Wo		6		±0.2	
Hole Position	W1		9		±0.7	t ₁ 0.3-0.6
Hold-Down Tape Position	W2		0.5		±0.2	
Lead Wire Clinch Height	Ho		16		±0.5	
Component Height	H1			32.25		
Length of Snipped leads	L			11.0		
Feed Hole Diameter	Do		4		±0.2	
Total Tape Thickness	t			1.2		
Lead-to-Lead Distance	F1,F2		2.54		+0.4 -0.1	
Clinch Height	H2			3		
Pull-out Force	(p)	6N				

Dimensions in m.m.

Notes:

- Maximum alignment deviation between leads not to be greater than 0.2 mm.
- Maximum non-cumulative variation between tape feed holes shall not exceed 1 mm in 20 pitches
- Hold-down tape not to exceed beyond the edge(s) of carrier tape and there shall be no exposure of adhesive.
- No more than 3 consecutive missing components permitted.
- A tape trailer, having at least three feed holes is required after the last component.
- Splices shall not interfere with the sprocket feed holes.