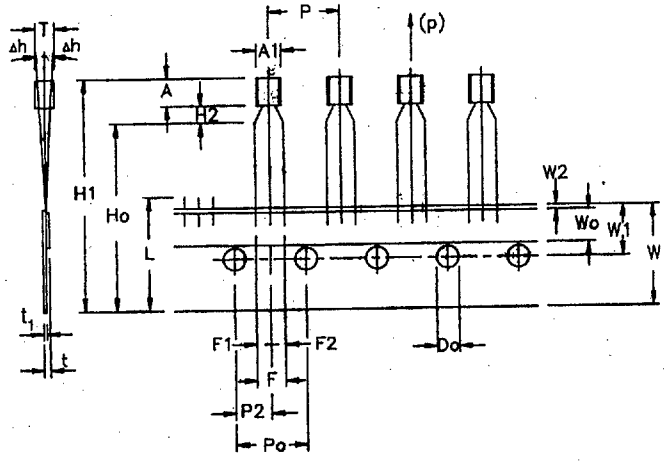
TO-92 Plastic Package Transistors (PNP)

CDIL

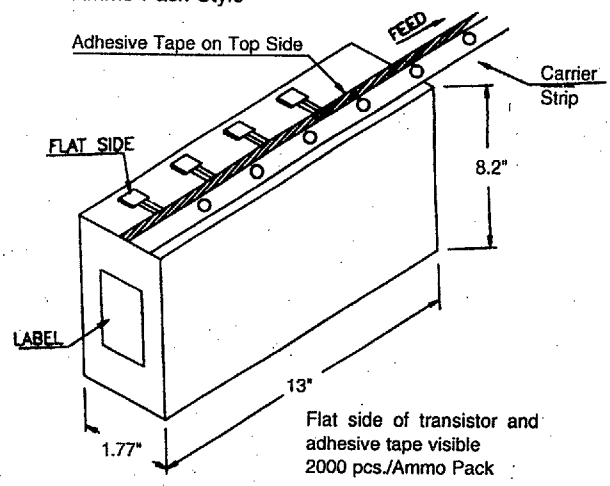
Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																				
Type No.	V_{CBO} (V) Min	V_{CEO} (V) Min	V_{EBO} (V) Min	P_D (W) @Tc=25°c	I_C (A)	I_{CBO} (µA) Max	V_{CB} @ (V)	I_{CES} (µA) Max	V_{CE} @ (V)	h_{FE} Min	h_{FE} Max	@ I_C & (mA)	V_{CE} (V)	$V_{CE(SAT)}$ (V) Max	$V_{BE(SAT)}$ (V) Min	$V_{BE(SAT)}$ (V) Max	I_C @ (mA)	C_{ob} (pF) Typ	C_{ob} (pF) Max	f_t (MHz) Min	f_t (MHz) Typ	f_t (MHz) Max	@ I_C (mA)	$t_{(off)}$ (ns) Max	N_F (dB) Max	@ Freq (MHz)	C_{re} (pF) Max	CDIL Case Style
CO38P	300	300	5	0.8	0.5	0.1	240	0.2	250	25	200	0.02	0.5	0.5		0.8	1											TO-92-1
										25	200	0.2	0.5															
CP4	12	12	5	0.4	0.15	1	10			50	700	2	5	0.25			10											TO-92-4
														0.65			100											
CP500	25	25	5	0.3	0.5	0.2	25			50	300	10	6	0.35			50	6		150		10						TO-92
															0.65	1.0	10											
CP501	35	35	5	0.3	0.5	0.2	35			50	300	10	6	0.25			50	6		150		10						TO-92
															0.65	1.0	10											
CP502	35	35	5	0.3	0.5	0.2	35			20		0.1	6	0.25			50	6		150		10						TO-92
										100	300	10	6		0.65	1.0	10											
										50		50	6															
CP503	45	45	5	0.3	0.5	0.2	45			50	300	10	6	0.35			50	6		150		10						TO-92
															0.65	1.0	10											
CP504	70	70	5	0.3	0.5	0.2	70			50	300	10	6	0.6			50	6		150		10						TO-92
															0.65	1.0	10											
CP550	60	45	5	0.75	1	0.1	45			100	300	150	10	0.25		1.1	150	25		150		50						TO-92
										15		1000	10															
CP551	80	60	5	0.75	1	0.1	60			50	150	150	10	0.35		1.1	150	25		150		50						TO-92
										10		1000	10															
CP552	100	80	5	0.75	1	0.1	80			40	150	150	10	0.25		1.1	150	12		150		50						TO-92
										10		1000	10															
CP553	120	100	5	0.75	1	0.1	100			40	200	150	10	0.25		1.1	150	12		150		50						TO-92
										10		1000	10															
CP749	35	25	5	0.75	2	0.1	30			70		50	2	0.3		1.25	1000	100		100		100						TO-92
										100	300	1000	2	0.6			2000											
										75		2000	2															
										10		6000	2															
CP750	60	45	5	0.75	2	0.1	45			70		50	2	0.3		1.25	1000	30		100		100						TO-92
										100	300	500	2	0.5			2000											
										80		1000	2															
										40		2000	2															
CP751	80	60	5	0.75	2	0.1	60			70		50	2	0.3		1.25	1000	30		100		100						TO-92
										100	300	500	2	0.5			2000											
										80		1000	2															
										40		2000	2															
CP752	100	80	5	0.75	2	0.1	80			70		50	2	0.3		1.25	1000	30		100		100						TO-92
										100	300	500	2	0.5			2000											
										55		1000	2															
										25		2000	2															
CP753	120	100	5	0.75	2	0.1	100			70		50	2	0.3		1.25	1000	30		100		100						TO-92
										100	300	500	2	0.5			2000											
										55		1000	2															
										25		2000	2															
CP754	125	125	5	0.75	1	0.1	100			50		10	5	0.5		1.1	500	20		30		10						TO-92
										50		500	5	0.5			1000											
										20		1000	5															
CP755	150	150	5	0.75	1	0.1	125			50		10	5	0.5		1.1	500	20		30		10						TO-92
										50		500	5	0.5			1000											
										20		1000	5															

TO-92 Taping Details

MECHANICAL DATA



Ammo Pack Style



Flat side of transistor and adhesive tape visible
2000 pcs./Ammo Pack

Item	Symbol	Specification				Remarks
		Min.	Nom.	Max.	Tol.	
Body Width	A1	4,0		4,8		
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	Cumulative Pitch Error 1.0 mm/20 Pitch
Feed Hole Centre to Component Centre	P2		6.35		±0.4	To be measured at bottom of Clinch
Distance between Outer Leads	F		5.08		±0.6 -0.2	
Component Alignment	Δh		0	1		At Top of Body
Tape Width	W		18		±0.5	
Hold-Down Tape Width	Wo		6		±0.2	
Hole Position	W1		9		±0.7	
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		t_1 0.3-0.6
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:

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