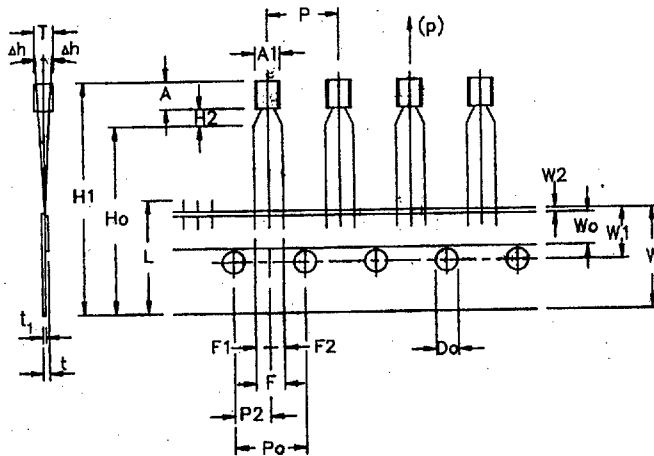


TO-92 Plastic Package Transistors (NPN)

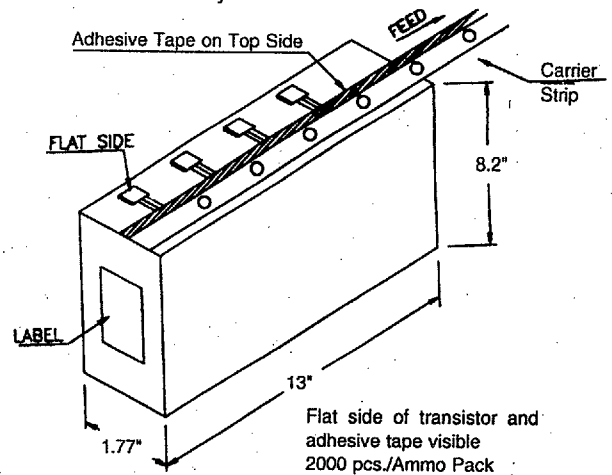
CDIL

Maximum Ratings								Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)															
Type No.	V _{CBO} (V) Min	V _{CED} (V) Min	V _{BE0} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CB} @ (V)	I _{DES} (μA) Max	V _{CE} @ (V)	h _{FE} @ Min Max	I _C & V _{CE} (mA) (V)	V _{CE(SAT)} (V) Max Min	V _{BE(SAT)} (V) Max	I _C @ (mA)	C _{ob} (pF) Typ Max	f _i (MHz) Min Typ Max	Q @ Max	I _C (mA)	t _{on} (ns) Max	N _F (dB) Max	@ Freq (MHz)	C _{is} (pF) Max	CDIL Case Style
2N5088	35	30	5	0.625	0.05	0.05	20			300 10 5 350 1 5 300 900 0.1 5		0.5		10	4	50		1		3			TO-92
2N5127	20	12	3	0.625	0.05	0.05	10			15 300 2 10		0.3	1	10	3.5	150		2					TO-92
2N5128	15	12	3	0.6	0.5	0.05	10			35 350 50 10 20 10 10		0.25	1.1	150	10	200	800	50					TO-92
2N5129	15	12	3	0.6	0.5	0.05	10			35 350 50 10 20 10 10		0.25	1.1	150	10	200	800	50					TO-92
2N5130	30	12	1	0.625	0.05	0.05	10			15 250 8 10		0.6	1	10	1.7	450		8					TO-92
2N5131	20	15	3	0.625	0.1	0.05	10			35 500 10 1		1		10	6	100		10					TO-92
2N5132	20	20	3	0.625	0.1	0.05	10			30 400 10 10		2	0.9	10	3.5	200		10					TO-92
2N5133	20	18	3	0.625	0.05	0.05	15			60 1000 1 5		0.4		1	5								TO-92
2N5134	20	10	4	0.625	0.2	0.1	15			15 30 0.4 20 150 10 1		0.25	0.7	0.9	10	4	250		10	18			TO-92
2N5135	30	25	4	0.6	0.5	0.3	15			50 60 10 10 15 2 10		1	1	100	25	40	500	30					TO-92
2N5136	30	20	3	0.6	0.5	0.1	20			20 400 150 1 20 30 1		0.25	1.1	150	35	40	400	50					TO-92
2N5137	30	20	3	0.6	0.5	0.1	20			20 400 150 1 20 30 1		0.25	1.1	150	35	40	400	50					TO-92
2N5172	25	25	5	0.4	0.15	0.1	25			100 500 10 10		0.25		10	10								TO-92-1
2N5219	20	15	3	0.625	0.1	0.1	10			35 500 2 10		0.4	1	10	4	150		10					TO-92
2N5220	15	15	3	0.625	0.6	0.1	10			30 600 50 10 25 10 10		0.5	1.1	150	10	100		20					TO-92
2N5223	25	20	3	0.625	0.1	0.1	10			50 800 2 10		0.7	1.2	10	4	150		10					TO-92
2N5224	25	12	5	0.625	0.2	0.5	15			15 100 1 0.35 40 10 1		0.9		10	4	250		10					TO-92
2N5225	25	25	4	0.625	0.6	0.3	15			30 600 50 10 25 10 10		0.8	1	100	20	50		20					TO-92
2N5232		50		0.625	0.05	0.03	50			250 500 2 5		0.125		10	4								TO-92-1
2N5232A		50		0.625	0.05	0.03	50			250 500 2 5		0.125		10	4					5			TO-92-1
2N5449	50	30	5			0.1	20			100 300 100 2		0.6		100		5		50					TO-92-4
2N5550	160	140	6	0.5	0.6	0.1	100			20 50 5 60 250 10 5 60 1 5		0.15 0.25	1 1.2	10 50	6	100	300	10		10			TO-92
2N5551	180	160	6	0.5	0.6	0.05	120			30 50 5 80 250 10 5 80 1 5		0.15 0.2	1 1	10 50	6	100	300	10		8			TO-92
2N5772	40	15	5	0.625	0.3	0.5	20			15 300 1 25 100 0.5 30 120 30 0.4		0.2 0.28 0.5	0.75 0.75 0.75	0.95 1.2 1.7	30 100 300	5	350		30	28		TO-92	

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.