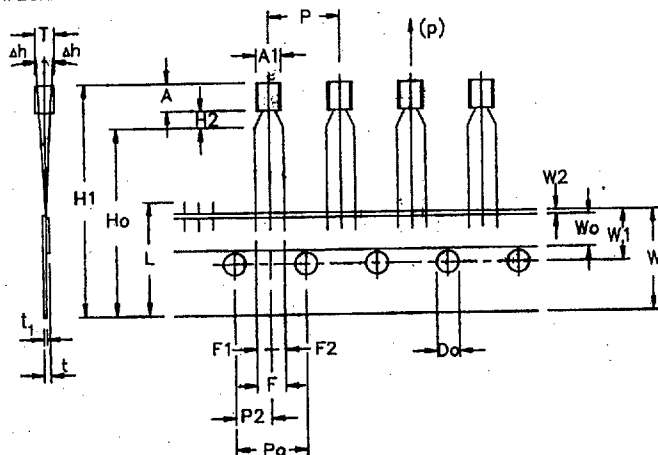


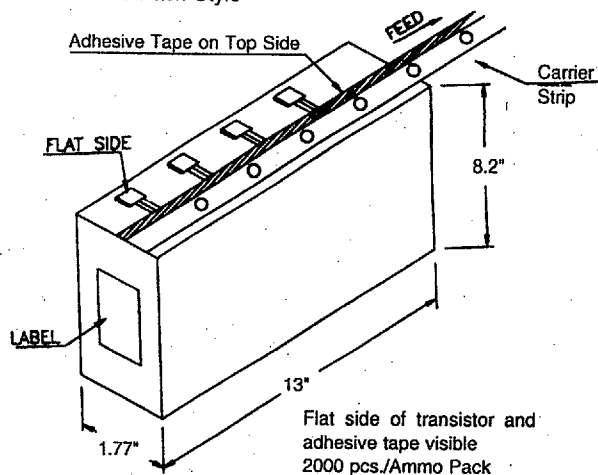
Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																						
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @ Tc=25°C	I _C (A)	I _{CBO} (μA) Max	V _{CE} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} Min	h _{FE} Max	I _C & (mA)	V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{CE(SAT)} (V) Min	V _{BE(SAT)} (V) Max	I _C (mA) @ V _{BE(SAT)}	C _{ob} (pF) Typ	f _T (MHz) Min	f _T (MHz) Typ	f _T (MHz) Max	I _C (mA)	t _{on} (ns) Max	N _F (dB) Max	Q _{max} (MHz) Max	C _{re} (pF) Max	CDIL Case Style	
2N4294	30	12	5	0.625	0.2	0.4	20			20	120	100	2	0.25	0.6	0.9	10	5	400			10	20					TO-92-1
2N4295	40	15	5	0.625	0.2	0.1	20			20	120	100	2	0.25	0.6	0.9	10	4	500			10	15					TO-92-1
2N4400	60	40	6	0.625	0.6			*0.1	35	20		500	2	0.4	0.75	0.95	150	6.5	200			20	255					TO-92
										50	150	150	1	0.75			1.2	500										
										40		10	1															
										20		1	1															
2N4401	60	40	6	0.625	0.6			*0.1	35	40		500	2	0.4	0.75	0.95	150	6.5	250			20	255					TO-92
										100	300	150	1	0.75			1.2	500										
										80		10	1															
										40		1	1															
										20		0.1	1															
2N4409	80	50	5	0.625	0.25	0.01	60			60	400	10	1	0.2		0.8	1	12	2			10	10					TO-92
										60		1	1															
2N4424	40	40	5	0.625	0.1	0.1	25			180	540	2	4.5	0.3	0.6	1.3	50											TO-92-1
2N4944	80	40	5	0.625	0.6	0.05	40			40	120	150	1	0.25			150		60			900	50					TO-92
										40		30	1															
2N4946	80	40	5	0.625	0.6	0.05	40			100	300	150	1	0.25			150		60			900	50					TO-92
										100		30	1															
2N4951	60	30	5	0.625	0.6	0.05	40			60	200	150	10	0.3		1.3	150	8	250			20	400					TO-92-1
										40		10	10															
										20		1	10															
2N4952	60	30	5	0.625	0.6	0.05	40			100	300	150	10	0.3		1.3	150	8	250			20	400					TO-92-1
										75		10	10															
										50		1	10															
2N4953	60	30	5	0.625	0.6	0.05	40			200	600	150	10	0.3		1.3	150	8	250			20	400					TO-92-1
										150		10	10															
										75		1	10															
2N4954	40	30	5	0.625	0.6	0.05	30			60	600	150	10	0.3		1.3	150	8	250			20	400					TO-92-1
										40		10	10															
										20		1	10															
2N4966	50	40	6	0.625	0.05	0.025	25			40	200	0.01	5	0.4			10	6	40			1						TO-92
										50		10	5															
2N4967	50	40	6	0.625	0.05	0.025	25			100	600	0.01	5	0.4			10	6	40			1						TO-92
										120		10	5															
2N4968	30	25	6	0.625	0.05	0.05	25			40	200	0.01	5	0.4			10	6										TO-92
										50		10	5															
2N4969	60	30	5	0.6	0.5	0.01	50			20		500	10	0.4		1.3	150	8	250			20						TO-92
										20		150	1	1.6		2.6	500											
										40	120	150	10															
										35		10	10															
										25		1	10															
										20	120	0.1	10															
2N4970	50	30	5	0.6	0.5					100	350	150	10	0.4	0.6	1.2	150	8	200			20						TO-92
										70		10	10															
										50	350	150	1															
2N5030	30	12	4	0.625	0.2	0.25	20			30		10	1	0.25	0.72	0.87	10	4	400			10	30					TO-92-1

* NOTE: I_{CEX}

MECHANICAL DATA



Ammo Pack Style



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 To be measured at bottom of Clinch
Feed Hole Centre to Component Centre	P2		6.35		±0.4	
Distance between Outer Leads	F		5.08		±0.6	
Component Alignment	Δh		0	1	-0.2	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:

- 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.