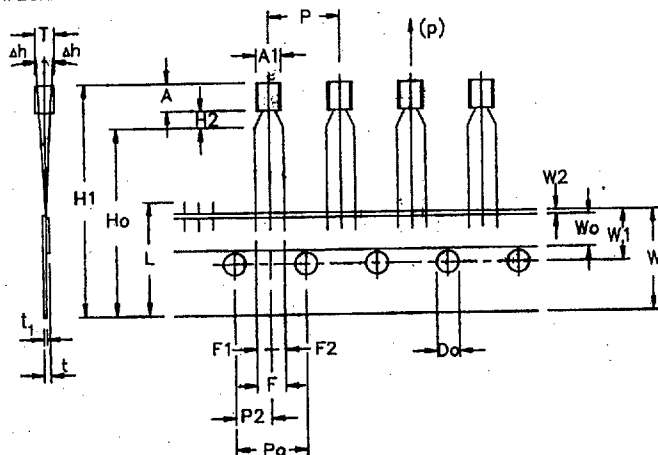
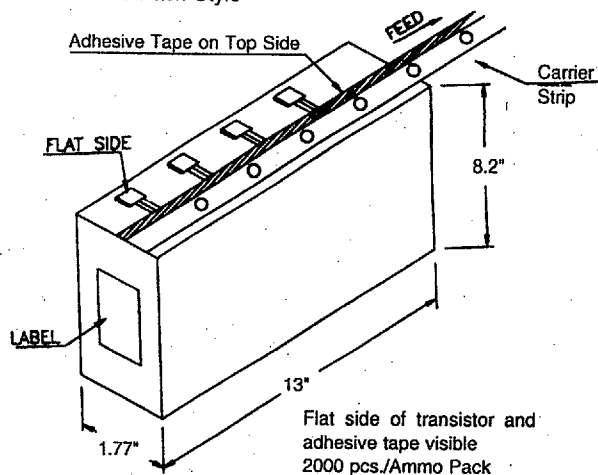


Maximum Ratings						Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																					
Type No.	V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	P _D (W) @Tc=25°C	I _C (A)	I _{CB0} (μA) Max	V _{CB} (V) @ I _C	I _{CES} (μA) Max	V _{CE} (V) @ I _{CES}	h _{FE} @ I _C & V _{CE} (mA) (V)		V _{CE(SAT)} (V) Max Min		V _{BE(SAT)} (V) Max Min		I _C (mA) @ V _{BE(SAT)}	C _{ob} (pF) Typ Max		f _t (MHz) Min Typ Max			t _{on} (ns) Max	N _F (dB) Max	@ Freq (MHz)	C _π (pF) Max	CDIL Case Style	
BC338-25	30	25	5	0.625	0.8	0.1	20			160 40	400 500	100 1	0.7			500		5		200							TO-92-4
BC368	25	20	5	0.8	1	10	25			50 85 60		5 375 1000	10 1 1	0.5		1000		27		65							TO-92-1
BC413	45	30	5	0.35	0.1	0.015	30			180	800	2 5	0.25 0.6			10 100		2.5		250				2.5			TO-92-4
BC414	50	45	5	0.35	0.1	0.015	30			180	800	2 5	0.25 0.6			10 100		2.5		250				2.5			TO-92-4
BC414B	50	45	5	0.35	0.1	0.015	30			100 180		0.01 5 460 2 5	0.25 0.6			10 100		2.5		250				2.5			TO-92-4
BC445	60	60	5	0.625	0.3	0.1	40			50 50 50	460	2 5 10 5 100 5	0.25			100			100	250						TO-92-4	
BC445A	60	60	5	0.625	0.3	0.1	40			120 100 60	220	2 5 10 5 100 5	0.25			100				100							TO-92-4
BC447A	80	80	5	0.625	0.3	0.1	60			120 100 60	220	2 5 10 5 100 5	0.25			100				100							TO-92-4
BC447B	80	80	5	0.625	0.3	0.1	60			180 160 90	460	2 5 10 5 100 5	0.25			100				100							TO-92-4
BC485	45	45	5	0.625	1	0.1	30			15 40 60	1000 10 400	5 2 2	0.5		1.2	500		7		200							TO-92-4
BC485A	45	45	5	0.625	1	0.1	30			40 100 15	10 250 1000	2 2 5	0.5		1.2	500		7		200							TO-92-4
BC485L	45	45	5	0.625	1	0.1	30			40 60 15	10 150 1000	2 2 5	0.5		1.2	500		7		200							TO-92-4
BC487A	60	60	5	0.625	1	0.1	40			40 100 15	10 250 1000	2 2 5	0.5		1.2	500		7		200							TO-92-4
BC487L	60	60	5	0.625	1	0.1	40			40 60 15	10 150 1000	2 2 5	0.5		1.2	500		7		200							TO-92-4
BC489L	80	80	5	0.625	1	0.1	60			40 60 15	10 150 1000	2 2 5	0.5		1.2	500		7		200							TO-92-4
BC546A	80	65	6	0.5	0.1			0.015	70	110	220	2 5	0.25 0.6			10 100		1.7 4.5		150 300				10	0.001		TO-92-4
BC546B	80	65	6	0.5	0.1			0.015	70	200	450	2 5	0.25 0.6			10 100		1.7 4.5		150 300				10	0.001		TO-92-4
BC546C	80	65	6	0.5	0.1			0.015	70	420	800	2 5	0.25 0.6			10 100		1.7 4.5		150 300				10			TO-92-4
BC547	50	45	6	0.5	0.1			0.015	50	110	800	2 5	0.25 0.6			10 100		1.7 4.5		150 300				10	0.001		TO-92-4

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	W _o		6		± 0.2	
Hole Position	W ₁		9		± 0.7	t_1 0.3-0.6
Hold-Down Tape Position	W ₂		0.5		± 0.2	
Lead Wire Clinch Height	H _o		16		± 0.5	
Component Height	H ₁			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	F ₁ , F ₂		2.54		± 0.4 -0.1	
Clinch Height	H ₂			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.