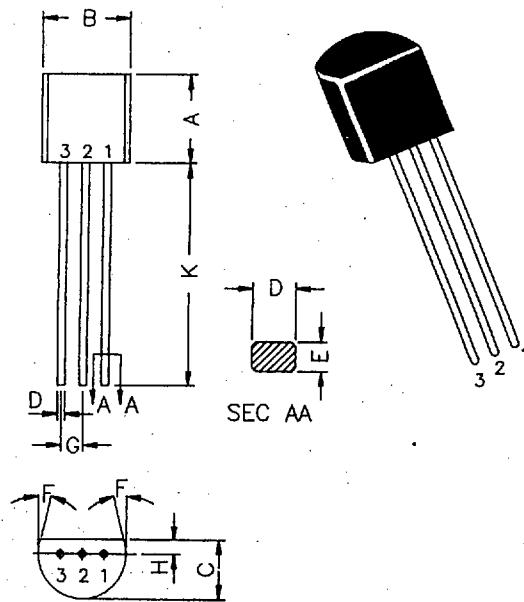




DIM	MIN	MAX
A	4,32	5,33
B	4,45	5,20
C	3,18	4,19
D	0,41	0,55
E	0,35	0,50
F	5 DEG	
G	1,14	1,40
H	1,14	1,53
K	12,70	—

ALL DIMENSIONS IN M.M.

Pin Configuration Available in TO-92

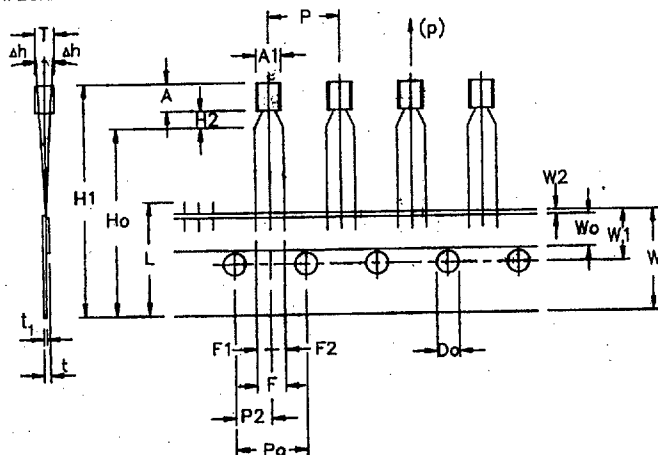
CDIL Code Style	Pin 1	Pin 2	Pin 3
TO-92	Collector	Base	Emitter
TO-92-1	Base	Collector	Emitter
TO-92-2	Base	Emitter	Collector
TO-92-3	Collector	Emitter	Base
TO-92-4	Emitter	Base	Collector

TO-92 Plastic Package Transistors (NPN)

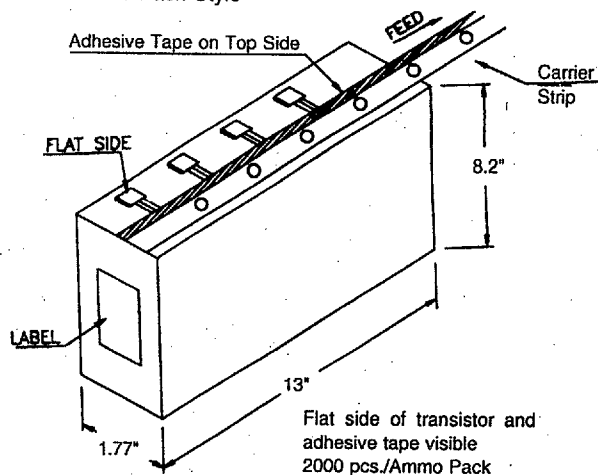
Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																			
Type No.	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	P _D (W) @Tc=25°C	I _C (A) Max	I _{CBO} (μA) Max	V _{CB} (V) Max	I _{CES} (μA) Max	V _{CE} (V) Max	h _{FE} @ Min	h _{FE} @ Max	I _C & (mA)	V _{CE} (V) Max	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Max	I _C (mA) Max	C _{ob} (pF) Typ	f _t (MHz) Min	f _t (MHz) Typ	f _t (MHz) Max	t _{on} (ns) Max	N _F (dB) Max	@ Freq (MHz)	C _{in} (pF) Max	CDIL Case Style	
2N2712	18	18	5	0.625	0.1	0.5	18			75	225	2	4.5				12	80	300	2						TO-92-1
2N2714	18	18	5	0.625	0.1	0.5	18			75	225	2	4.5	0.3	.6	1.2	50									TO-92-1
#2N2924	25	25	5	0.625	0.1	0.1	25			150	300	2	10				10									TO-92-1
2N3390	25	25	.5	0.625	0.1	0.1	18			400	800	2	4.5				10									TO-92-1
2N3391A	25	25	5	0.625	0.1	0.1	18			250	500	2	4.5				10					5				TO-92-1
2N3395	25	25	5	0.625	0.1	0.1	18			150	500	2	4.5				10									TO-92-1
2N3396	25	25	5	0.625	0.1	0.1	18			90	500	2	4.5				10									TO-92-1
2N3397	25	25	5	0.625	0.1	0.1	18			55	500	2	4.5				10									TO-92-1
2N3398	25	25	5	0.625	0.1	0.1	18			55	800	2	4.5				10									TO-92-1
2N3414	25	25	5	0.6	0.5	0.1	25			75	225	2	4.5	0.3	.6	1.3	50									TO-92-1
2N3417	50	50	5	0.625	0.1	0.1	50			180	540	2	4.5	0.3	.6	1.3	50									TO-92-1
2N3564	30	15	4	0.625	0.05	0.05	15			20	200	15	10	0.3		0.97	20	3.5	400	1200	15					TO-92
2N3565	30	25	6	0.625	0.05	0.05	25			70 150	600	0.1 1	10 10	0.35		1		4	40	240	1					TO-92
2N3605		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	45				TO-92-1
2N3606		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	60				TO-92-1
2N3607		14		0.625	0.2	0.5	18			30		10	1	0.25		0.85	10	6	300		10	70				TO-92-1
2N3662	18	12	3	0.625	0.05	0.5	15			20		8	10				1.7	700	2100	5		6.5	60			TO-92-1
2N3663	30	12	3	0.625	0.05	0.5	15			20		8	10				1.7	700	2100	5		6.5	60			TO-92-1

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.