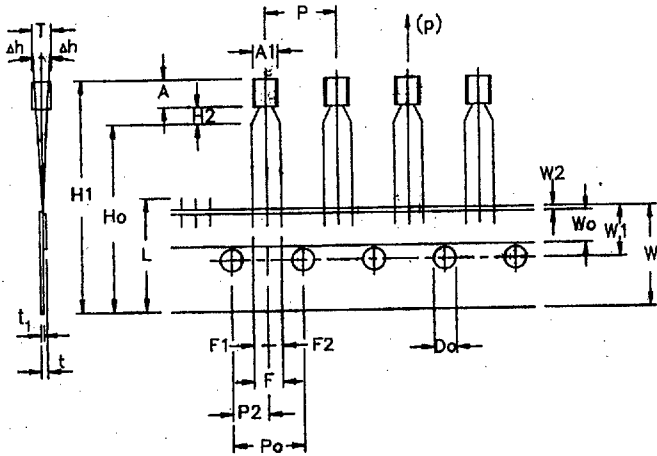
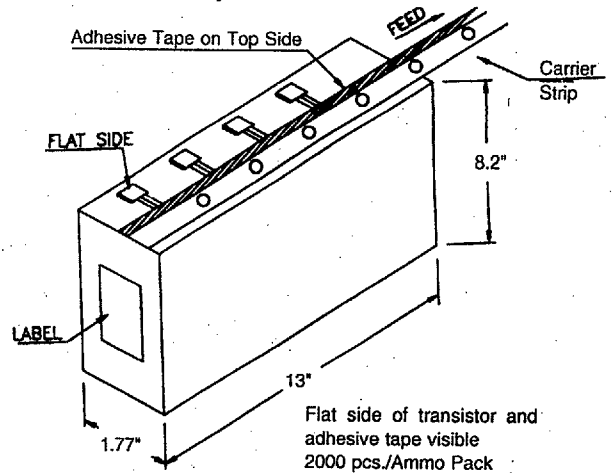


Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V <sub>CB0</sub> (V) Min	V <sub>CEO</sub> (V) Min	V <sub>EB0</sub> (V) Min	P <sub>D</sub> (W) @ Tc=25°C	I <sub>C</sub> (A)	I <sub>CB0</sub> (μA) @ V <sub>CE</sub> (V) Max	V <sub>CE</sub> (V) @ I <sub>C</sub> (mA) Max	I <sub>CES</sub> (μA) Max	V <sub>CE</sub> (V) @ I <sub>CES</sub> (μA) Max	h <sub>FE</sub>	β	I <sub>C</sub> & V <sub>CE</sub> (mA) (V)	V <sub>CE(SAT)</sub> (V) Max	V <sub>BE(SAT)</sub> (V) Min	I <sub>C</sub> (mA) Max	C <sub>ob</sub> (pF) Typ	f <sub>i</sub> (MHz) Min	β	I <sub>C</sub> (mA) Max	t <sub>on</sub> (ns) Max	N <sub>F</sub> (dB) Max	@ Freq (MHz)	C <sub>re</sub> (pF) Max	CDIL Case Style
CSC2002M	60	60	5	0.5	0.3	0.1	60			90	180	50 1 30 300 2	0.6	1.2	300	7 15	50 140	10						TO-92-1
CSC2003	80	80	5	0.5	0.3	0.1	80			90	400	50 1 30 300 2	0.6	1.2	300	7 15	50 140	10						TO-92-1
CSC2003K	80	80	5	0.5	0.3	0.1	80			200	400	50 1 30 300 2	0.6	1.2	300	7 15	50 140	10						TO-92-1
CSC2003L	80	80	5	0.5	0.3	0.1	80			135	270	50 1 30 300 2	0.6	1.2	300	7 15	50 140	10						TO-92-1
CSC2003M	80	80	5	0.5	0.3	0.1	80			90	180	50 1 30 300 2	0.6	1.2	300	7 15	50 140	10						TO-92-1
CSC2120	35	30	5	0.6	0.8	0.1	35			100	320	100 1 35 700 1	0.5		500	13	120	10						TO-92-1
CSC2120O	35	30	5	0.6	0.8	0.1	35			100	200	100 1 35 700 1	0.5		500	13	120	10						TO-92-1
CSC2120Y	35	30	5	0.6	0.8	0.1	35			160	320	100 1 35 700 1	0.5		500	13	120	10						TO-92-1
CSC2216	50	45	4	0.3	0.05	0.1	50			40	100	12.5 12.5	0.2	1.5	15	2	300	13						TO-92-3
CSC2229Y	200	150	5	0.625	0.5	0.1	200			120	360	10 5	0.5	1	10	3.5 5	120	10						TO-92-1
CSC2240	120	120	5	0.3	0.1	0.1	120			200	700	2 6	0.3		10	3.0	100	1			6			TO-92
CSC2240BL	120	120	5	0.3	0.1	0.1	120			350	700	2 6	0.3		10	3.0	100	1			6			TO-92
CSC2240GR	120	120	5	0.3	0.1	0.1	120			200	400	2 6	0.3		10	3.0	100	1			6			TO-92-1
CSC2271	300	300	6	0.9	0.1	1	200			40	200	10 10	0.6	1	20	7.5	50	10						TO-92-1
CSC2271C	300	300	6	0.9	0.1	1	200			40	80	10 10	0.6	1	20	7.5	50	10						TO-92-1
CSC2271D	300	300	6	0.9	0.1	1	200			60	120	10 10	0.6	1	20	7.5	50	10						TO-92-1
CSC2271E	300	300	6	0.9	0.1	1	200			100	200	10 10	0.6	1	20	7.5	50	10						TO-92-1
CSC2274D	100	80	5	0.6	0.5	1	40			60	120	50 5 35 400 5	0.6	1.2	400	5	120	10						TO-92-1
CSC2274E	100	80	5	0.6	0.5	1	40			100	200	50 5 35 400 5	0.6	1.2	400	5	120	10						TO-92-1
CSC2274F	100	80	5	0.6	0.5	1	40			160	320	50 5 35 400 5	0.6	1.2	400	5	120	10						TO-92-1
CSC2274K	100	80	5	0.6	0.5	1	40			60	320	50 5 35 400 5	0.6	1.2	400	5	120	10						TO-92-1
CSC2309	55	50	5	0.2	0.1	0.5	18			250	1200	2 12	0.2		10	3.5	150 230	2						TO-92-1
CSC2309D	55	50	5	0.2	0.1	0.5	18			250	500	2 12	0.2		10	3.5	150 230	2						TO-92-1
CSC2309E	55	50	5	0.2	0.1	0.5	18			400	800	2 12	0.2		10	3.5	150 230	2						TO-92-1
CSC2309F	55	50	5	0.2	0.1	0.5	18			600	1200	2 12	0.2		10	3.5	150 230	2						TO-92-1
CSC2328A	30	30	5	1	1.5	0.1	30			100	320	500 2	2		1500	30	120	500						TO-92-1
CSC2328AO	30	30	5	1	1.5	0.1	30			100	200	500 2	2		1500	30	120	500						TO-92-1

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
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	
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 <sub>1</sub> 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.