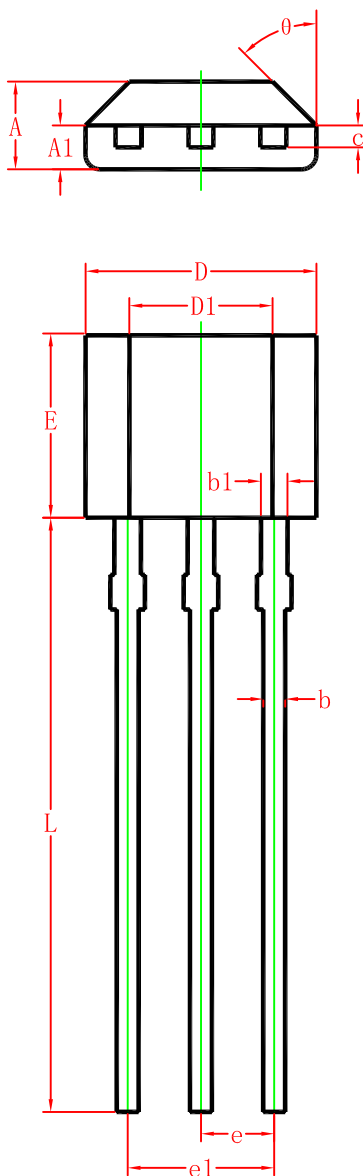
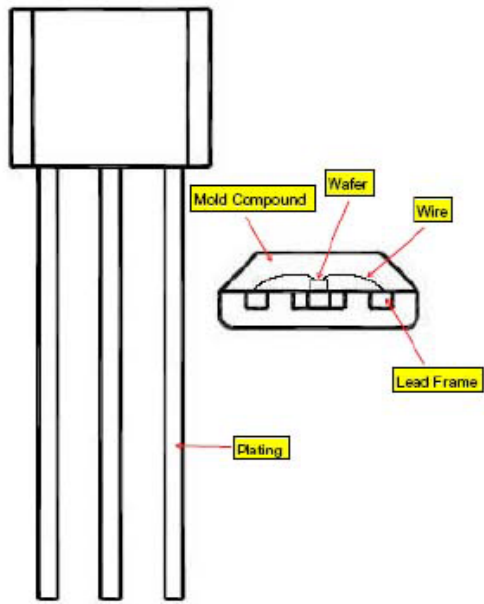


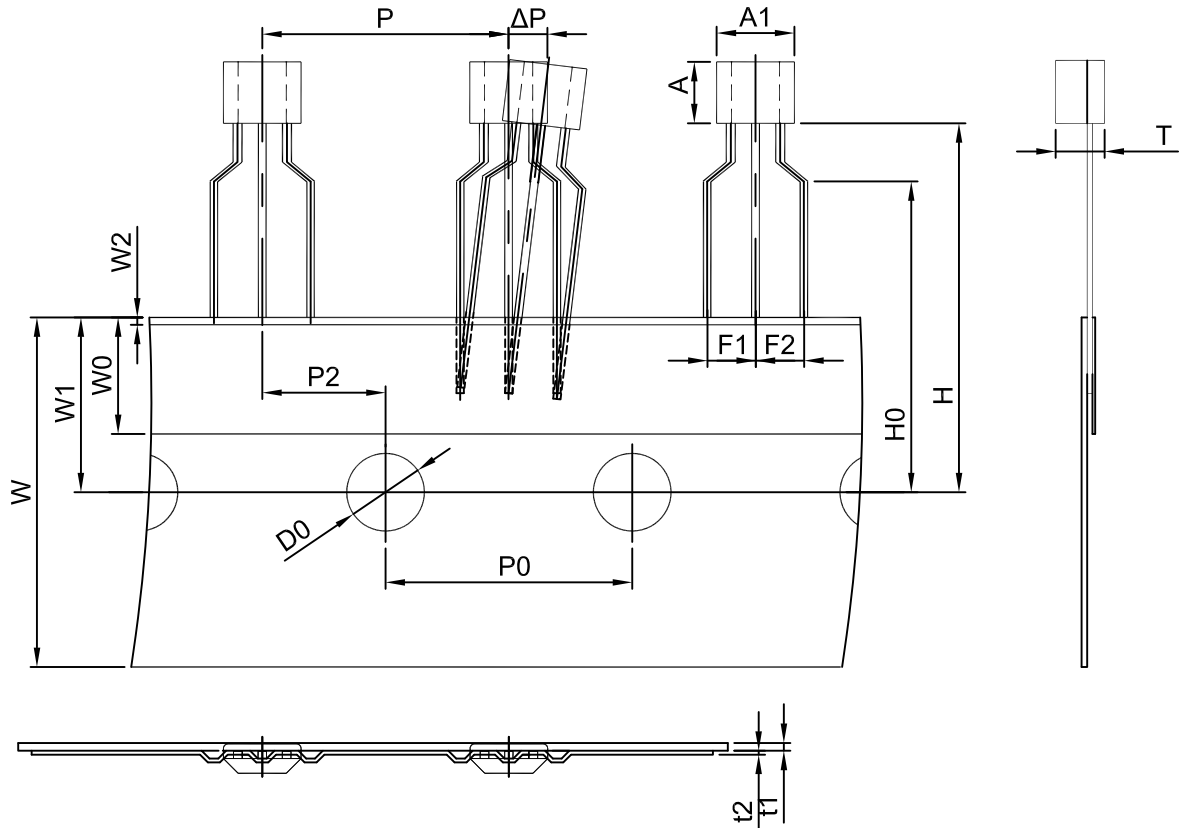
TO-92S PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.420	1.620	0.056	0.064
A1	0.660	0.860	0.026	0.034
b	0.330	0.480	0.013	0.019
b1	0.400	0.510	0.016	0.020
c	0.330	0.510	0.013	0.020
D	3.900	4.100	0.154	0.161
D1	2.280	2.680	0.090	0.106
E	3.050	3.250	0.120	0.128
e	1.270 TYP.		0.050 TYP.	
e1	2.440	2.640	0.096	0.104
L	15.100	15.500	0.594	0.610
θ	45° TYP.		45° TYP.	

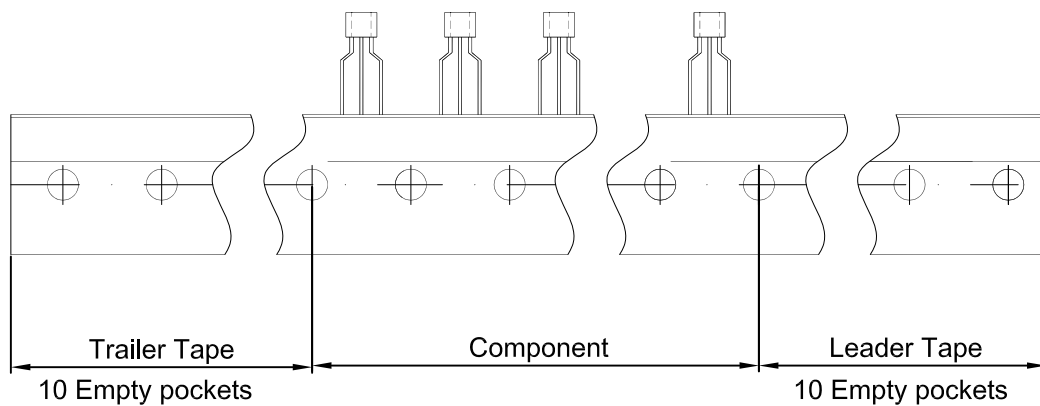


TO-92S PACKAGE TAPEING DIMENSION



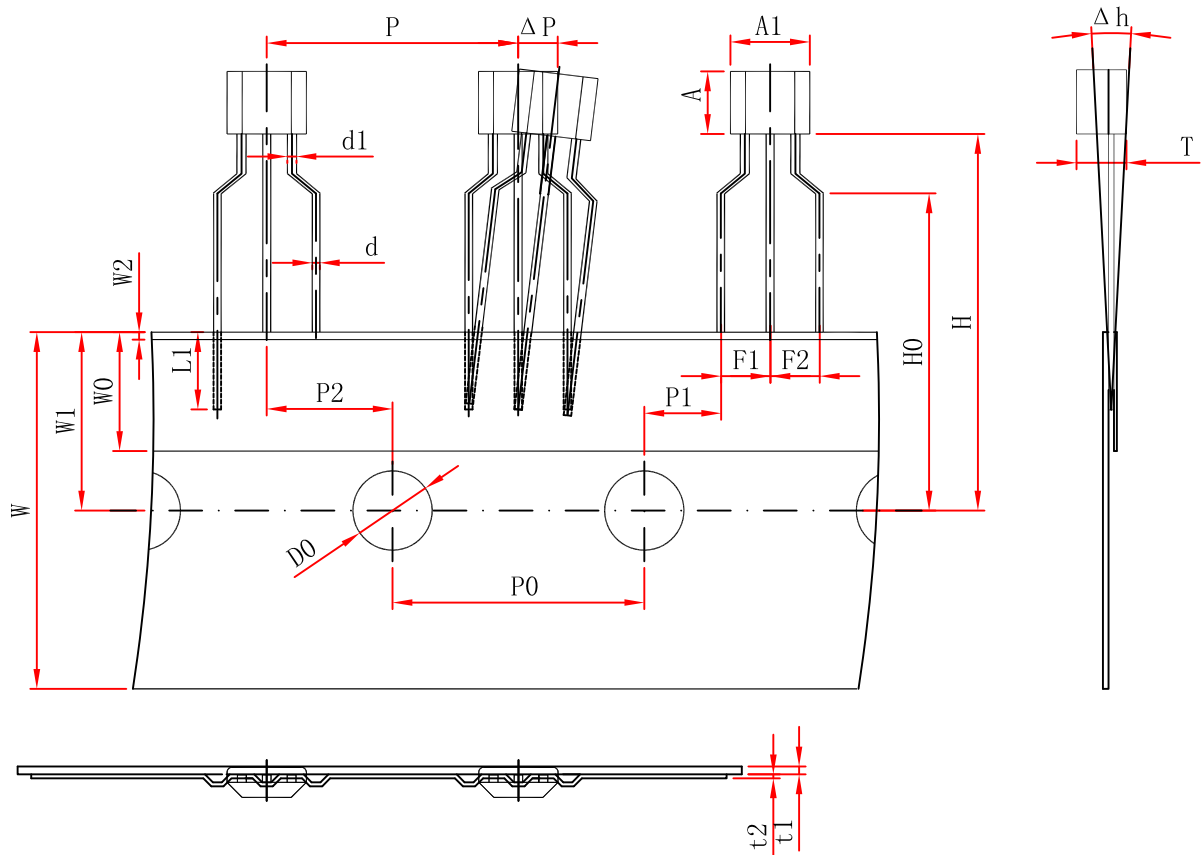
Dimiensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
4.0±0.1	3.15±0.1	1.52±0.1	12.7±0.3	12.7±0.2	6.35±0.3	2.5±0.3	2.5±0.3	18.0+1.0/-0.5
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0±0.5	9.0±0.5	1.0 MAX.	19.0+2.0/-1	16.0±0.5	4.0±0.2	0.4±0.05	0.2±0.05	0 ± 1.0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92S	3000 pcs	333×162×43	30,000 pcs	350×340×250

TO-92S PACKAGE TAPEING DIMENSION



Item	Symbol	Value & Tolerance
Body width	A1	4.0 ± 0.1
Body height	A	3.15 ± 0.1
Body thickness	T	1.52 ± 0.1
Lead wire diameter	d	0.38+0.1, - 0.05
Lead wire diameter1	d1	0.46+ 0.05, - 0.06
Pitch of component	P	12.7 ± 0.3
Feed hole pitch	P0	12.7 ± 0.2
Hole center to component center	P2	6.35 ± 0.3
Lead to lead distance	F1,F2	2.5 ± 0.3
Component alignment, F-R	Δh	0 ± 1.0
Type width	W	18.0 + 1.0, - 0.5
Hole down tape width	W0	6.0 ± 0.5
Hole position	W1	9.0 ± 0.5
Hole down tape position	W2	1.0MAX.
Height of component from tape center	H	19.0 +2.0, -1.0
Lead wire clinch height	H0	16.0 ± 0.5
Lead wire(tape portion)	L1	2.50 MIN.
Feed hole diameter	D0	4.0 ± 0.2
Taped Lead Thickness	t1	0.4 ± 0.05
Carrier Tape Thickness	t2	0.2 ± 0.05
Position of hole	P1	3.85±0.3
Component alignment	ΔP	0 ± 1.0

Unit : mm





Inner Box: 240 mm × 165mm × 95mm



Label on the Inner Box



Stamp "EMPTY"
on the empty box

Outer Box: 525 mm × 360mm × 262mm



Seal the box
with the tape

QA Label

Label on the Outer Box