JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92L Plastic-Encapsulate Transistors

2SC1383 TRANSISTOR (NPN)
2SC1384

TO-92L

1.EMITTER

2.COLLECTOR

3.BASE

FEATURES

- Low Collector to Emitter Saturation Voltage $V_{CE(sat)}$.
- Complementary Pair with 2SA0683 and 2SA0684.

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	2SC1383	2SC1384	Unit
V_{CBO}	Collector-Base Voltage	30	60	V
V_{CEO}	Collector-Emitter Voltage	25	50	V
V_{EBO}	Emitter-Base Voltage	5		V
I_C	Collector Current –Continuous	1		A
P_C	Collector Power Dissipation	0.75		W
T_J	Junction Temperature	150		℃
T_{stg}	Storage Temperature	-55-150		℃
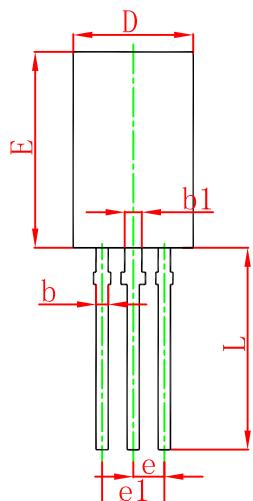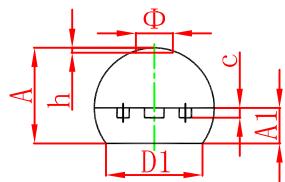
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage 2SC1383 2SC1384	$V_{(BR)CBO}$	I_C=10μA ,I_E=0	30 60			V
Collector-emitter breakdown voltage 2SC1383 2SC1384	$V_{(BR)CEO}$	I_C=2mA , I_B=0	25 50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= 10μA, I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=20V, I_E=0			0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=10V, I_C=500mA	85		340	
	$h_{FE(2)}$	V_{CE}=5V, I_C=1A	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=500m A,I_B=50mA			0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=500mA,I_B=50mA			1.2	V
Transition frequency	f_T	V_{CE}=10V,I_C=50mA		200		MHz

CLASSIFICATION OF $h_{FE(1)}$
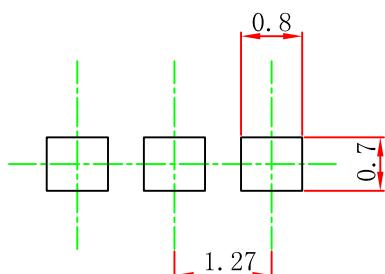
Rank	Q	R	S
Range	85-170	120-240	170-340

TO-92L Package Outline Dimensions

| Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.700	4.100	0.146	0.161
A1	1.280	1.580	0.050	0.062
b	0.350	0.550	0.014	0.022
b1	0.600	0.800	0.024	0.031
c	0.350	0.450	0.014	0.018
D	4.700	5.100	0.185	0.201
D1	4.000		0.157	
E	7.800	8.200	0.307	0.323
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	13.800	14.200	0.543	0.559
Φ		1.600		0.063
h	0.000	0.300	0.000	0.012

TO-92L Suggested Pad Layout
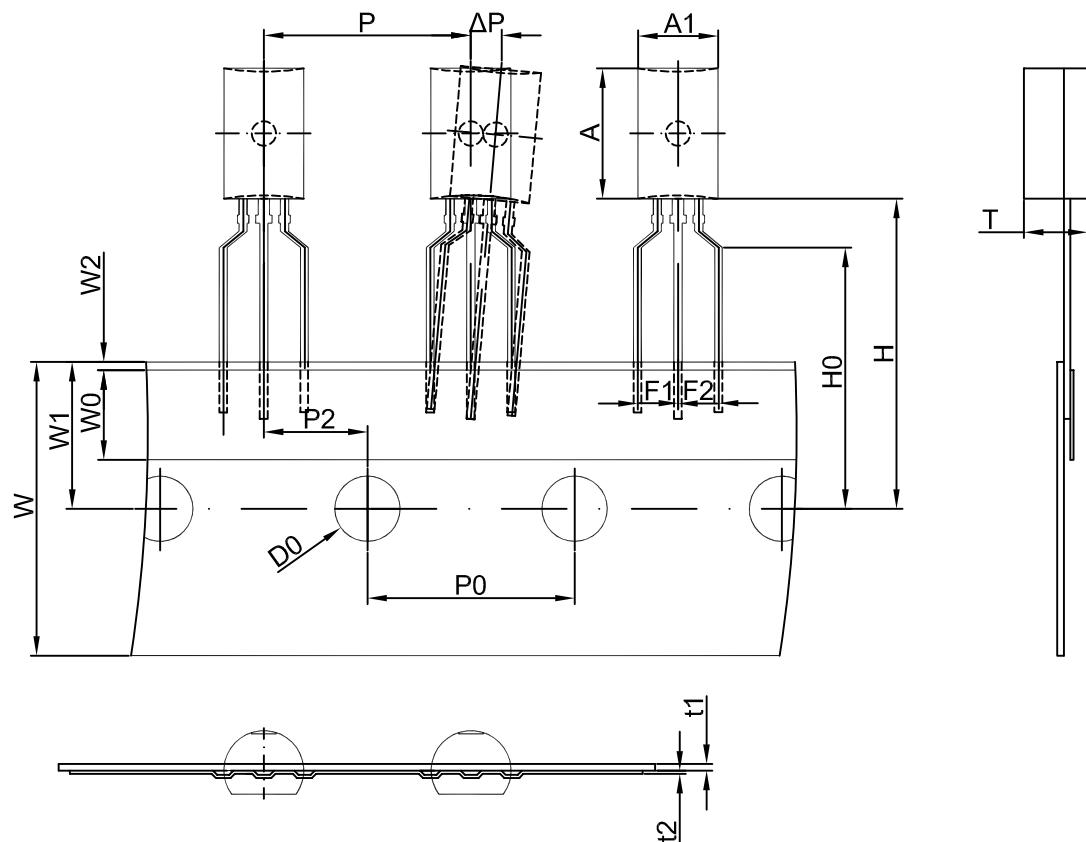
Note:
1. Controlling dimension:in millimeters.
2. General tolerance:±0.05mm.
3. The pad layout is for reference purposes only.
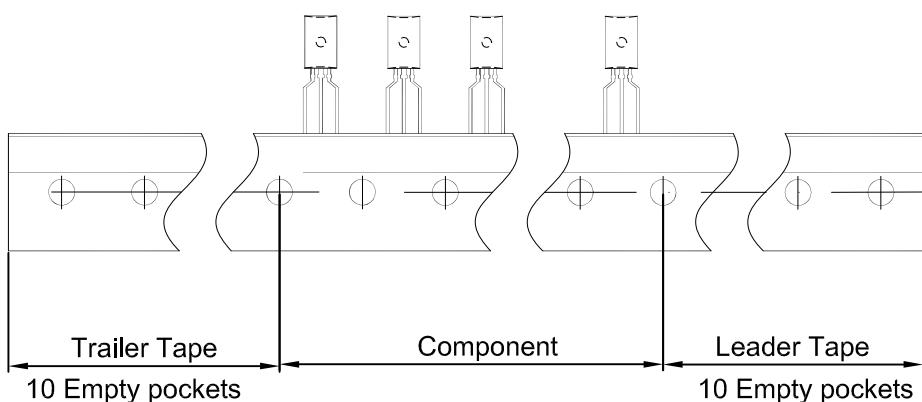
NOTICE

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TO-92L PACKAGE TAPEING DIMENSION

Dimiensions are in millimeter								
A1	A	T	P	P0	P2	F1	F2	W
4.9±0.2	8.0±0.2	3.9±0.2	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/-0	16.0±0.5	4.0±0.2	0.4±0.05	0.2±0.05	0 ± 1.0

Trailer Tape
10 Empty pockets

Component

Leader Tape
10 Empty pockets

Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92L	2000 pcs	333×203×42	20,000 pcs	493×400×264

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