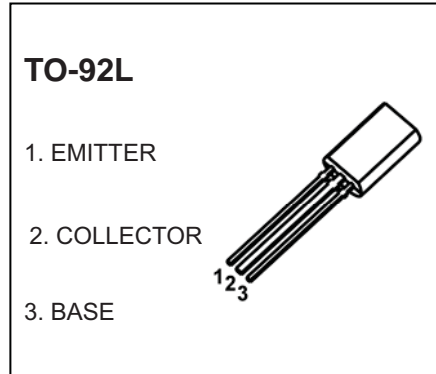


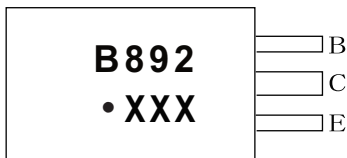
2SB892 TRANSISTOR (PNP)

FEATURE

- Power Supplies, Relay Drivers, Lamp Drivers, and Automotive Wiring
- Low Saturation Voltage.
- Large Current Capacity and Wide ASO.

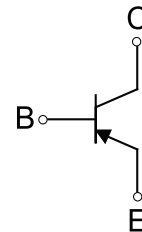


MARKING



B892=Device code
 Solid dot = Green mdding compound device,
 if none, the normal device
 XXX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SB892	TO-92L	Bulk	500pcs/Bag
2SB892-TA	TO-92L	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-60	V
V _{CE0}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _c	Collector Current -Continuous	-2	A
P _D	Collector Power Dissipation	750	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	167	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS

$T_a=25^\circ\text{C}$ unless otherwise specified

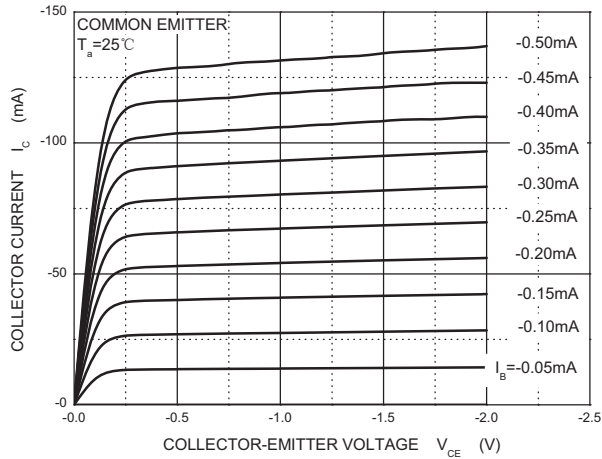
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V(\text{BR})_{\text{CBO}}$	$I_C = -100\mu\text{A}$, $I_E = 0$	-60		V
Collector-emitter breakdown voltage	$V(\text{BR})_{\text{CEO}}$	$I_C = -1\text{mA}$, $I_B = 0$	-50		V
Emitter-base breakdown voltage	$V(\text{BR})_{\text{EBO}}$	$I_E = -100\mu\text{A}$, $I_C = 0$	-6		V
Collector cut-off current	I_{CBO}	$V_{\text{CB}} = -50\text{V}$, $I_E = 0$		-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{\text{EB}} = -4\text{V}$, $I_C = 0$		-0.1	μA
DC current gain	$h_{\text{FE}(1)}$	$V_{\text{CE}} = -2\text{V}$, $I_C = -100\text{mA}$	100	560	
	$h_{\text{FE}(2)}$	$V_{\text{CE}} = -2\text{V}$, $I_C = -1.5\text{A}$	40		
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_C = -1\text{A}$, $I_B = -50\text{mA}$		-0.4	V
Base-emitter saturation voltage	$V_{\text{BE(sat)}}$	$I_C = -1\text{A}$, $I_B = -50\text{mA}$		-1.2	V
Transition frequency	f_T	$V_{\text{CE}} = -10\text{V}$, $I_C = -50\text{mA}$	150		MHz

CLASSIFICATION OF $h_{\text{FE}(1)}$

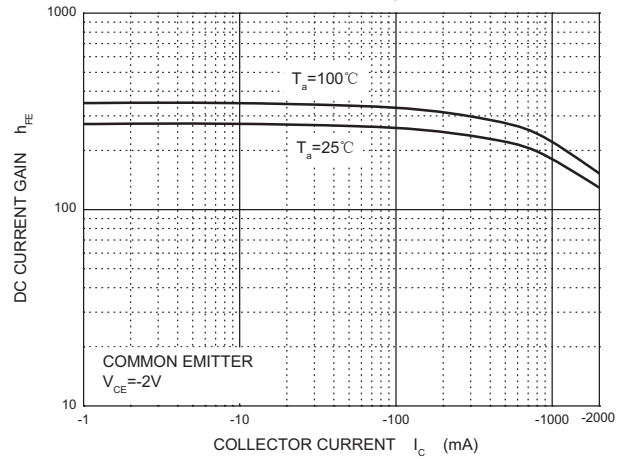
Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

Typical Characteristics

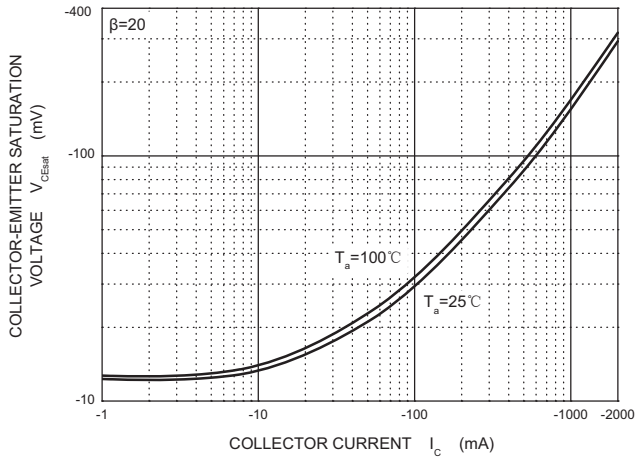
Static Characteristic



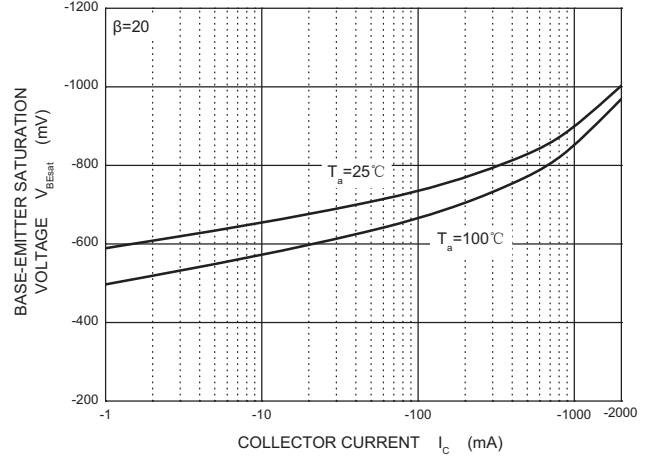
h_{FE} — I_C



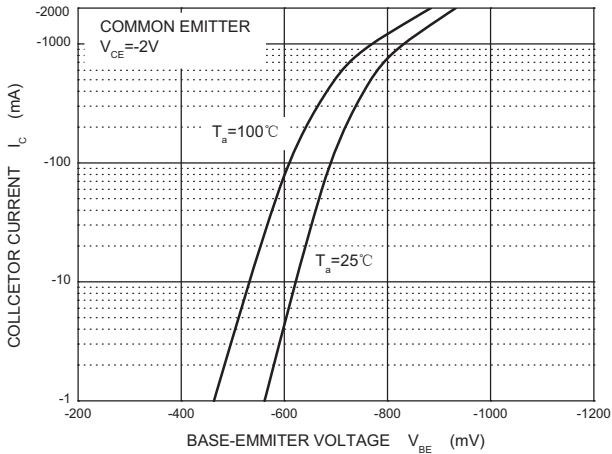
V_{CEsat} — I_C



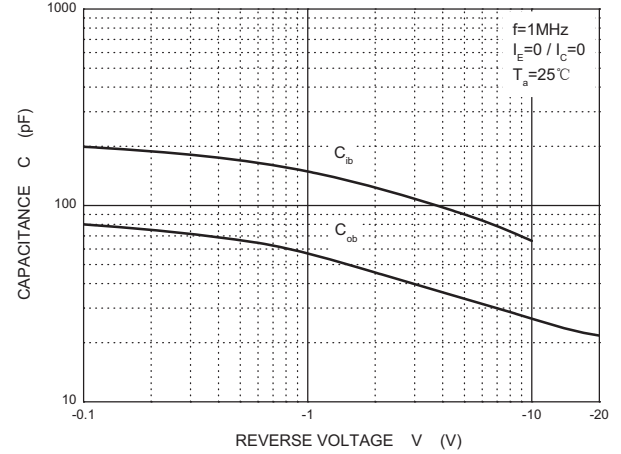
V_{BEsat} — I_C



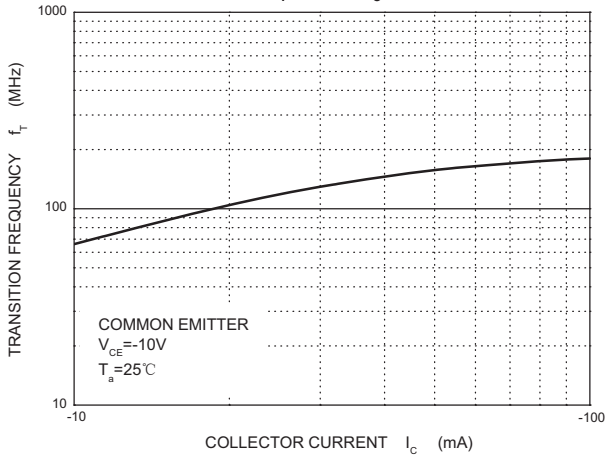
I_C — V_{BE}



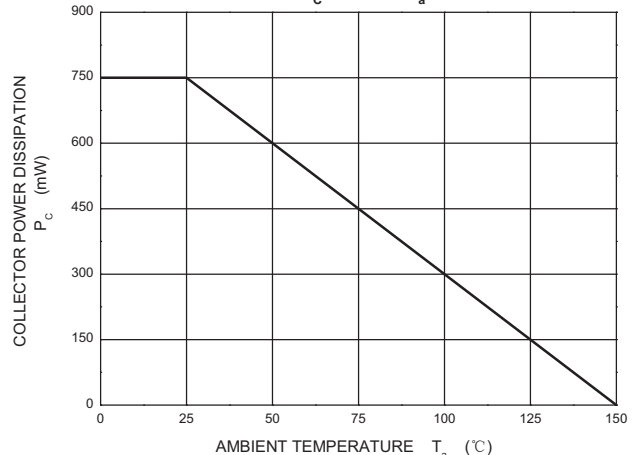
C_{ob}/C_{ib} — V_{CB}/V_{EB}



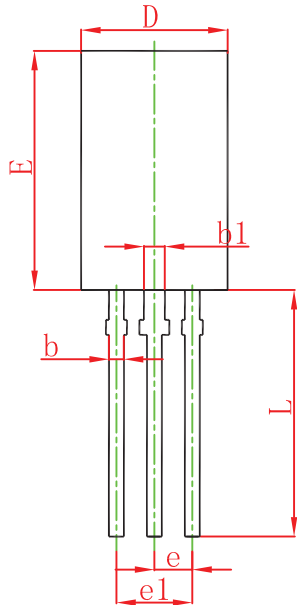
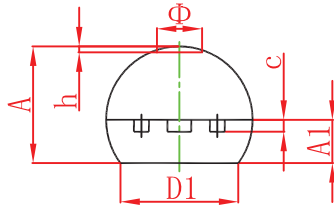
f_T — I_C



P_C — T_a

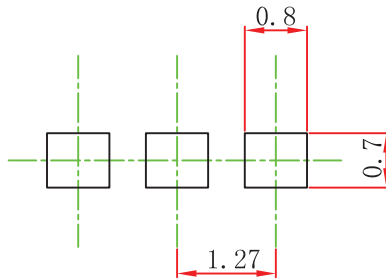


TO-92L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	3.750	4.050	0.148	0.159
A1	1.280	1.580	0.050	0.062
b	0.380	0.550	0.015	0.022
b1	0.620	0.780	0.024	0.031
c	0.350	0.450	0.014	0.018
D	4.750	5.050	0.187	0.199
D1	4.000		0.157	
E	7.850	8.150	0.309	0.321
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



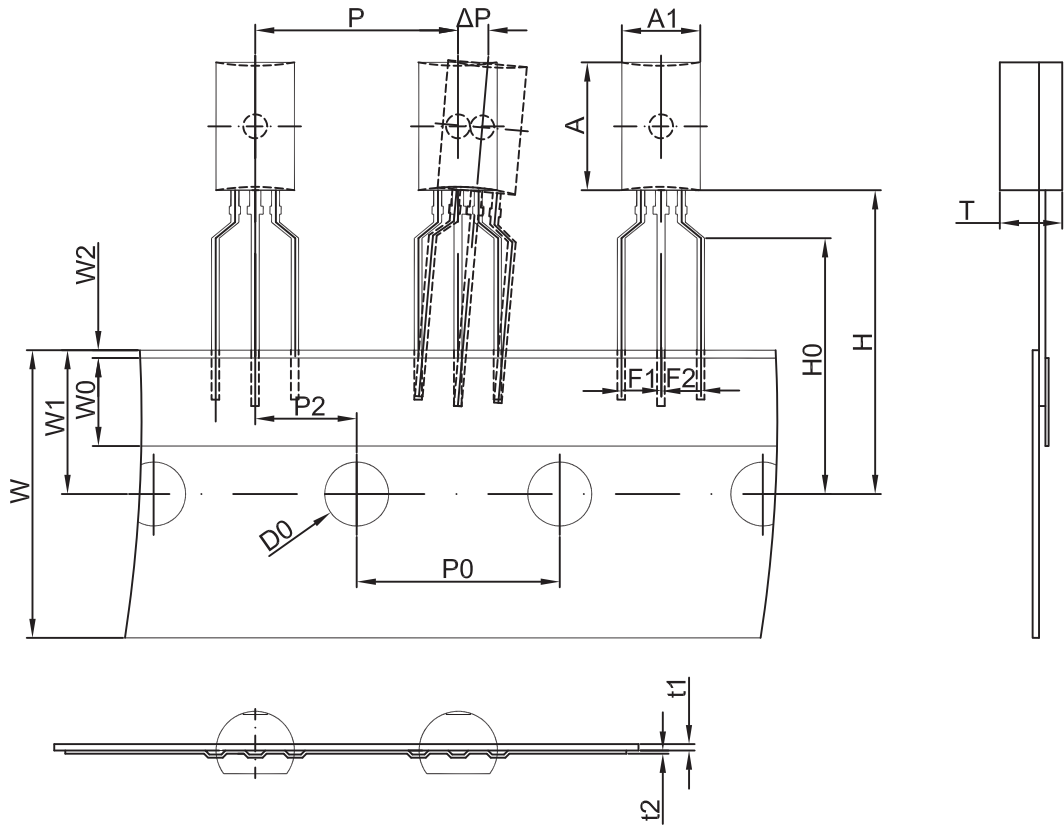
Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

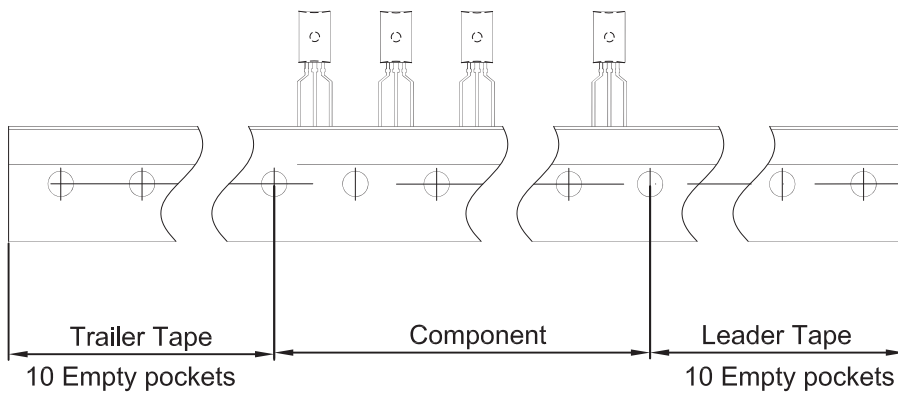
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TO-92L PACKAGE TAPING DIMENSION



Dimensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
4.9	8.0	3.9	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0	19.0	16.0	4.0	0.4	0.2	0



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