

TO-92MOD Plastic-Encapsulate Transistors

2SB892 TRANSISTOR (PNP)

FEATURE

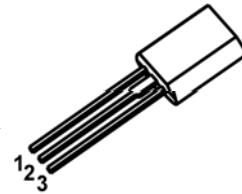
- Power Supplies, Relay Drivers, Lamp Drivers, and Automotive Wiring
- Low Saturation Voltage.
- Large Current Capacity and Wide ASO.

TO-92MOD

1. EMITTER

2. COLLECTOR

3. BASE

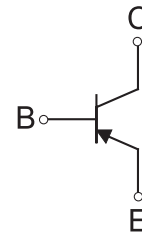


MARKING



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

Equivalent Circuit



ORDERING INFORMATION

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

MAXIMUM RATINGS* $T_a=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	-60	V
V_{CE0}	Collector-Emitter Voltage	-50	V
V_{EB0}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-2	A
P_C	Collector Dissipation	1	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55-150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

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

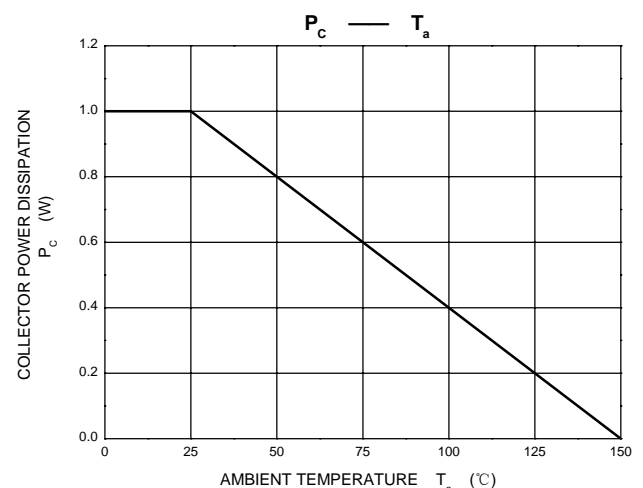
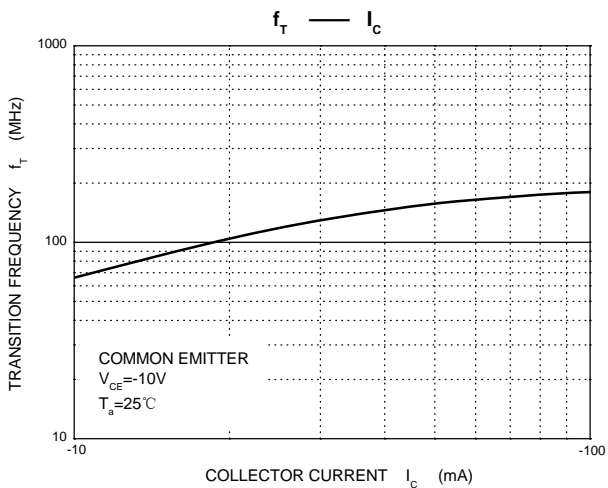
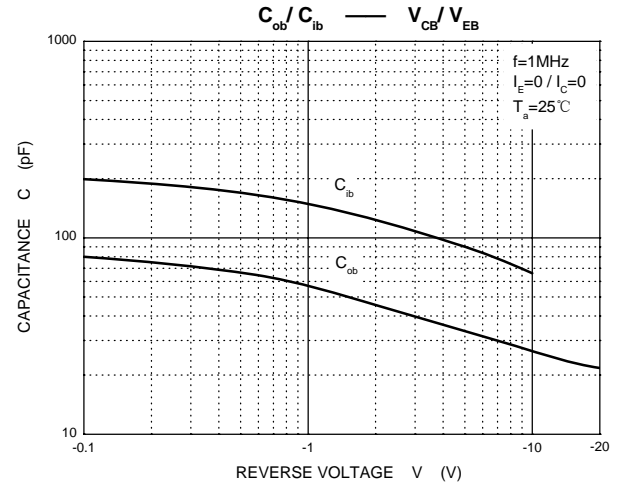
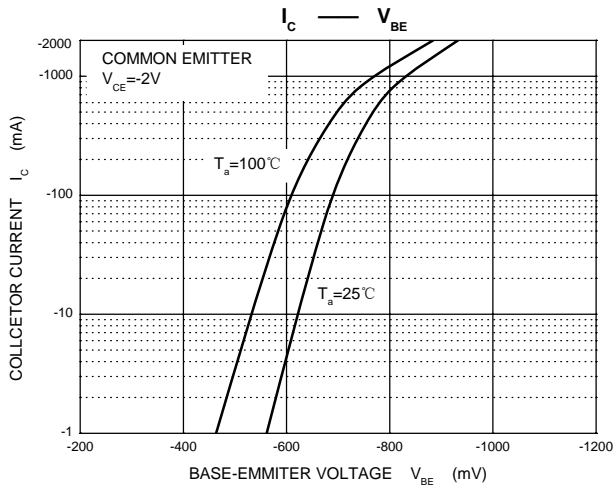
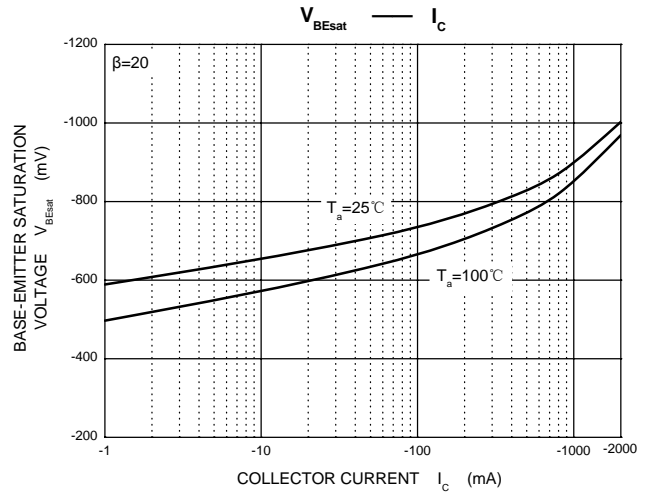
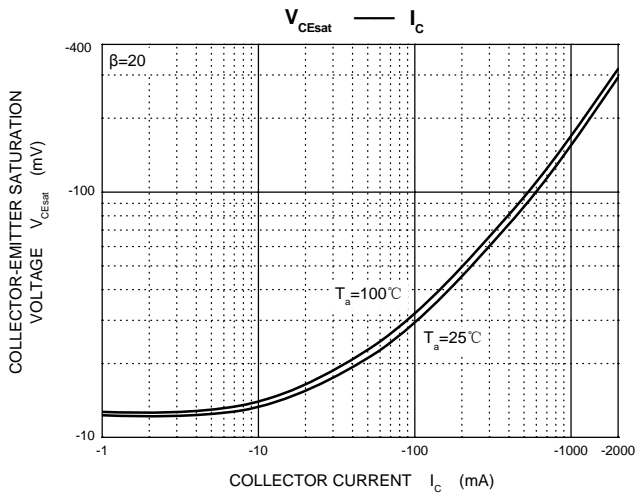
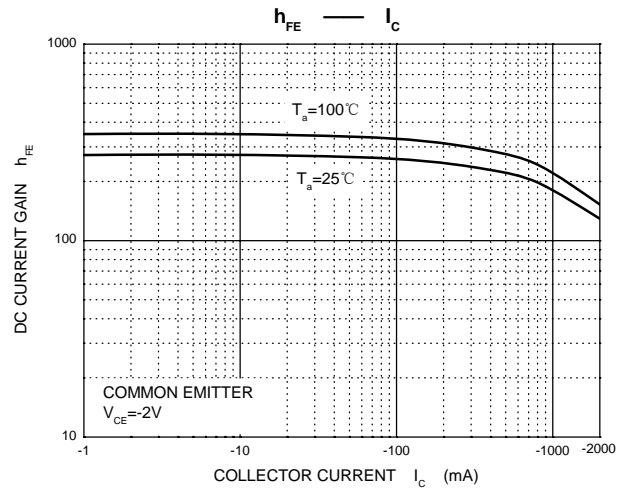
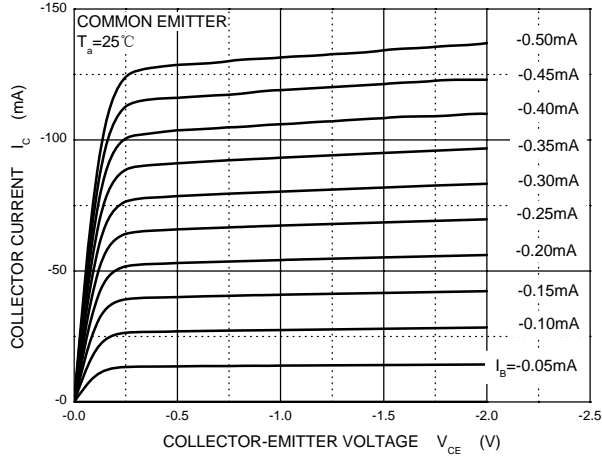
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V(\text{BR})_{\text{CBO}}$	$I_C = -100\mu\text{A}$, $I_E = 0$	-60		V
Collector-emitter breakdown voltage	$V(\text{BR})_{\text{CEO}}$	$I_C = -1\text{mA}$, $I_B = 0$	-50		V
Emitter-base breakdown voltage	$V(\text{BR})_{\text{EBO}}$	$I_E = -100\mu\text{A}$, $I_C = 0$	-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	$V_{\text{CE}(\text{sat})}$	$I_C = -1\text{A}$, $I_B = -50\text{mA}$		-0.4	V
Base-emitter saturation voltage	$V_{\text{BE}(\text{sat})}$	$I_C = -1\text{A}$, $I_B = -50\text{mA}$		-1.2	V
Transition frequency	f_T	$V_{\text{CE}} = -10\text{V}$, $I_C = -50\text{mA}$	150		MHz

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

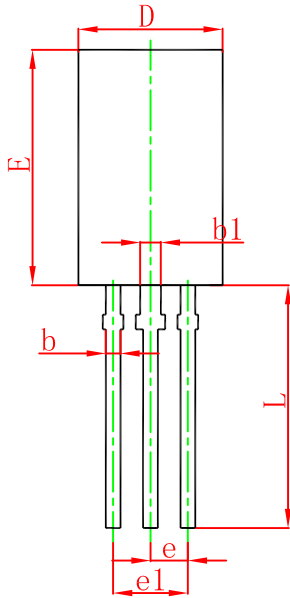
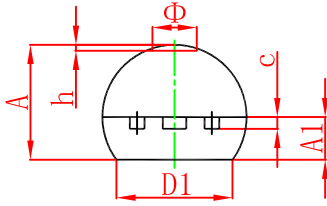
Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

Typical Characteristics

Static Characteristic

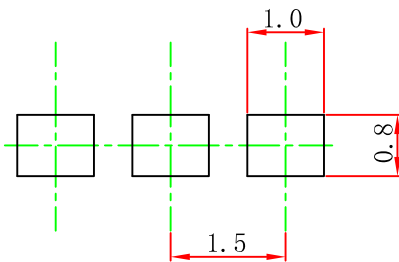


TO-92MOD Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.800	5.000	0.189	0.197
A1	1.730	2.030	0.068	0.080
b	0.440	0.600	0.017	0.024
b1	0.940	1.100	0.037	0.043
c	0.350	0.450	0.014	0.018
D	5.900	6.100	0.232	0.240
D1	4.000		0.157	
E	8.500	8.700	0.335	0.343
e	1.500 TYP.		0.059 TYP.	
e1	2.900	3.100	0.114	0.122
L	13.800	14.200	0.543	0.559
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92MOD Suggested Pad Layout



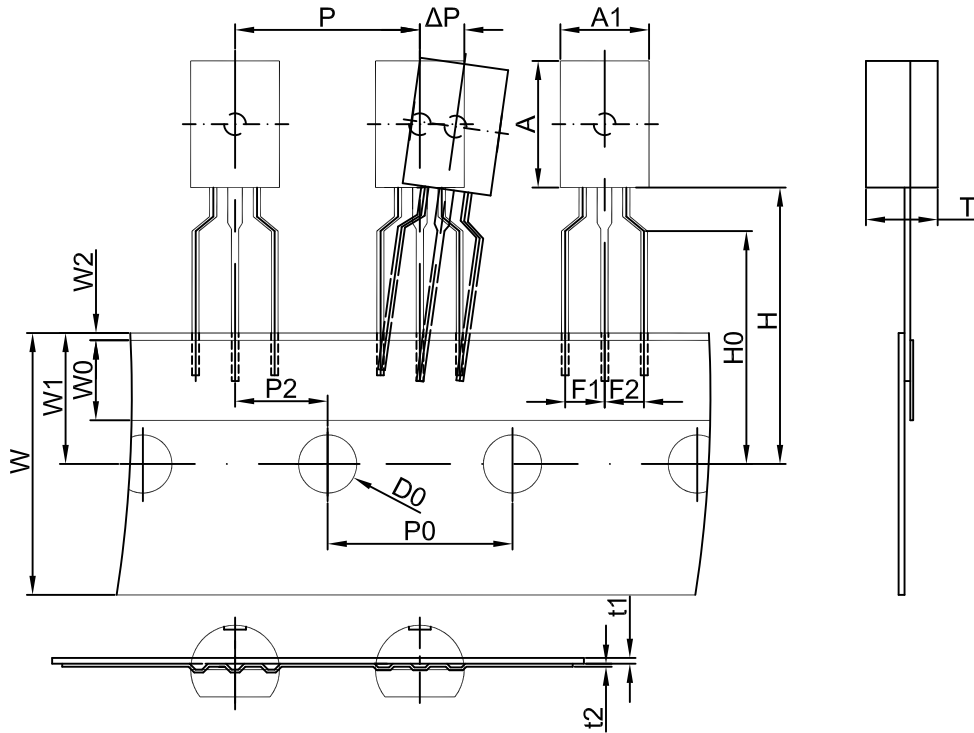
Note:

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

NOTICE

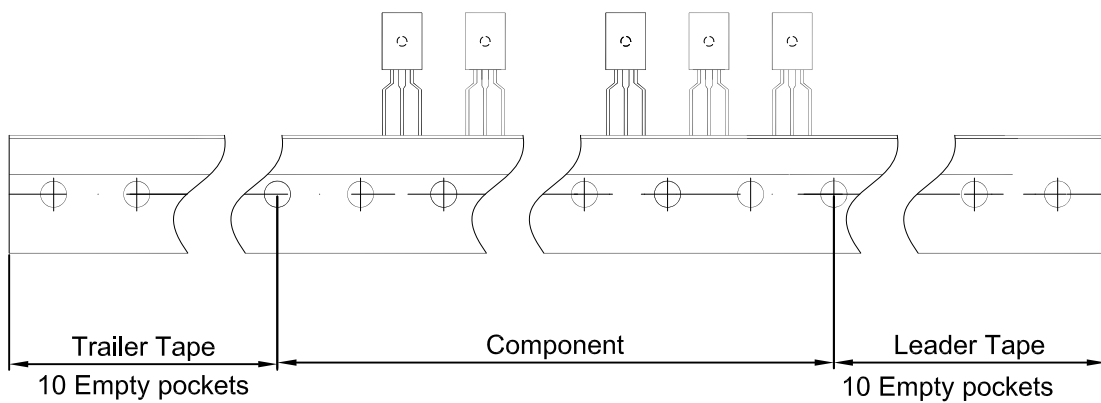
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TO-92MOD PACKAGE TAPEING DIMENSION



Dimensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
6.0	8.6	4.9	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-92MOD	2000 pcs	333×245×43	20,000 pcs	573×404×266