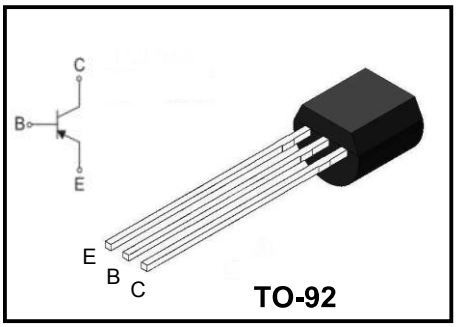
Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

2W Output Amplifier of Portable Radios in Class B Push-pull Operation.



FEATURES

- Complimentary to SS8050
- Collector Current: I_C=1.5A

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Value	Unit
Collector-base voltage	BV_{CBO}	-40	V
Collector-emitter voltage	BV_{CEO}	-25	V
Emitter-ease voltage	BV_{EBO}	-6	V
Collector current	I_C	-1.5	A
Collector power dissipation	P_C	1	W
Junction temperature	T_J	150	°C
Storage temperature	T_{STG}	-55 to 150	°C

Electrical Characteristics (Ta=25℃)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	I_C = -100μA , I_E = 0	BV_{CBO}	-40			V
Collector-emitter breakdown voltage	I_C = -1mA , I_B = 0	BV_{CEO}	-25			V
Emitter-base breakdown voltage	I_E = -100μA , I_C = 0	BV_{EBO}	-6			V
Collector cut-off current	V_{CB} = -35V , I_E = 0	I_{CBO}			-100	n A
Emitter cut-off current	V_{EB} =-6V , I_C = 0	I_{EBO}			-100	nA
DC current gain	V_{CE} = -1V , I_C= -5mA	h_{FE1}	45			
	V_{CE} = -1V , I_C= -100mA	h_{FE2}	85		300	
	V_{CE} = -1V , I_C= -800mA	h_{FE3}	40			
Collector-emitter saturation voltage	I_C =-800mA , I_B = -80mA	V_{CESAT}			-0.5	V
base -emitter saturation voltage	I_C = -800mA , I_B = -80mA	V_{BESAT}			-1.2	V
Transition frequency	V_{CE} = -10V , I_B = -50mA	f_T	100			MHz

h_{FE2} Classification

Classification	SS8550-B	SS8550-C	SS8550-D
Range	85-160	120-200	160-300

Typical Characteristics

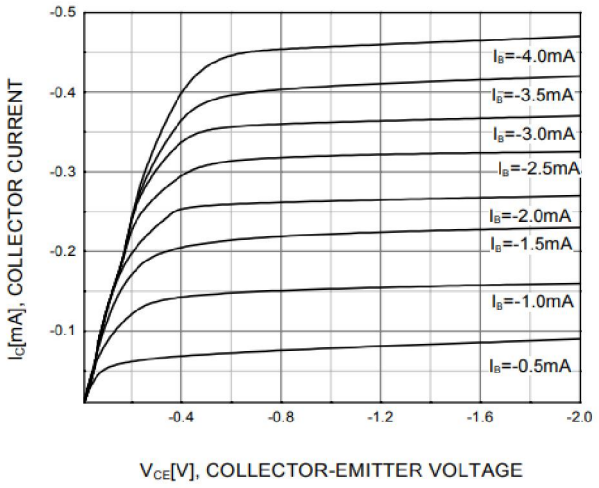


Figure 1. Static Characteristic

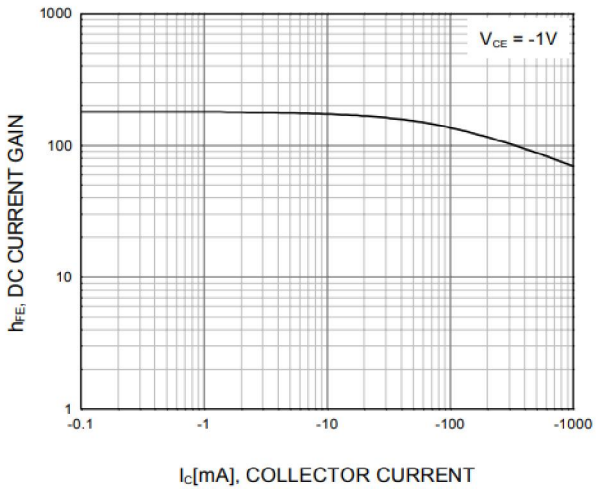


Figure 2. DC current Gain

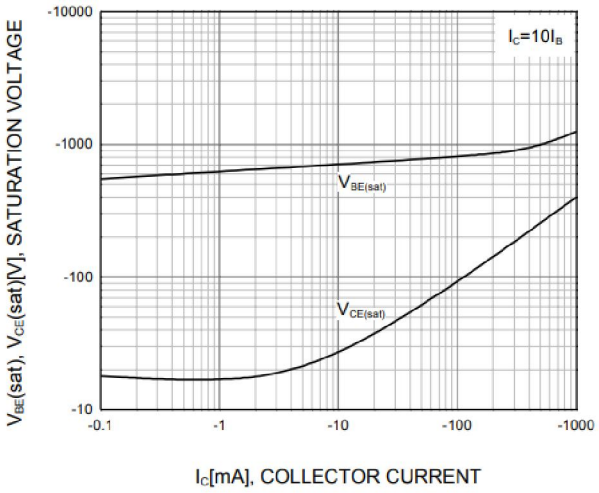


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

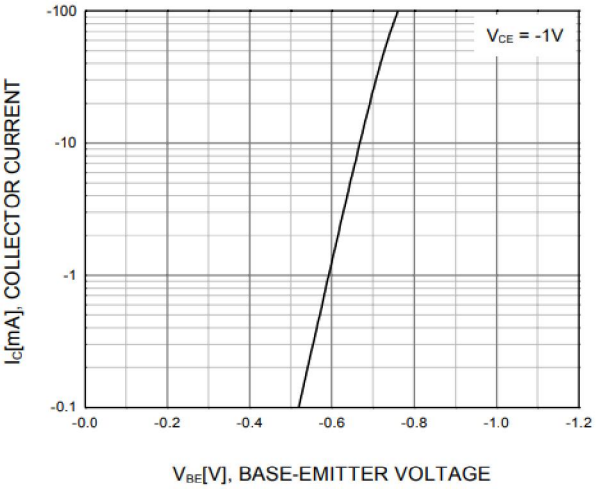


Figure 4. Base-Emitter On Voltage

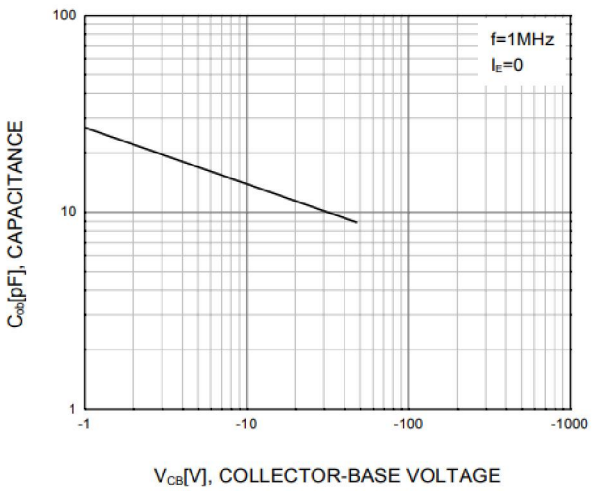


Figure 5. Collector Output Capacitance

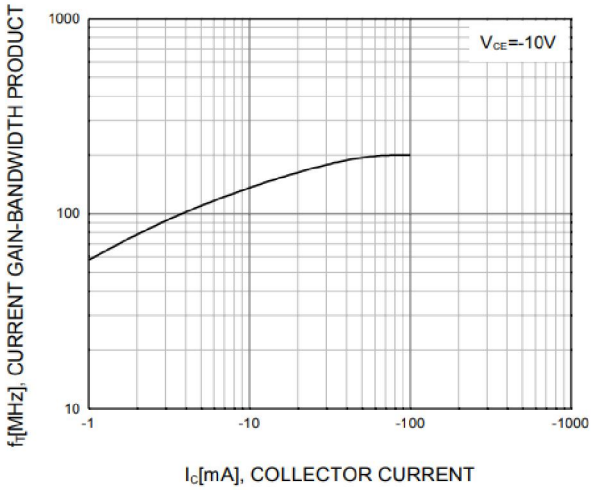


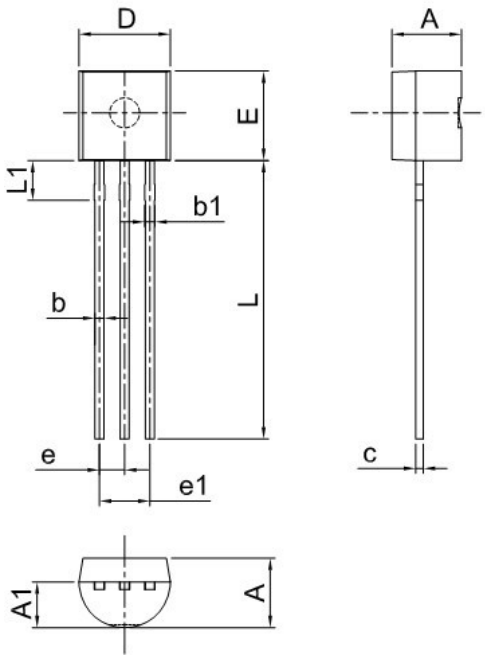
Figure 6. Current Gain Bandwidth Product

Ordering information

Package	Packing Description	Base Quantity
TO-92	Bulk	1000pcs/Bag
	Tape	2000pcs/Box

Package Dimensions

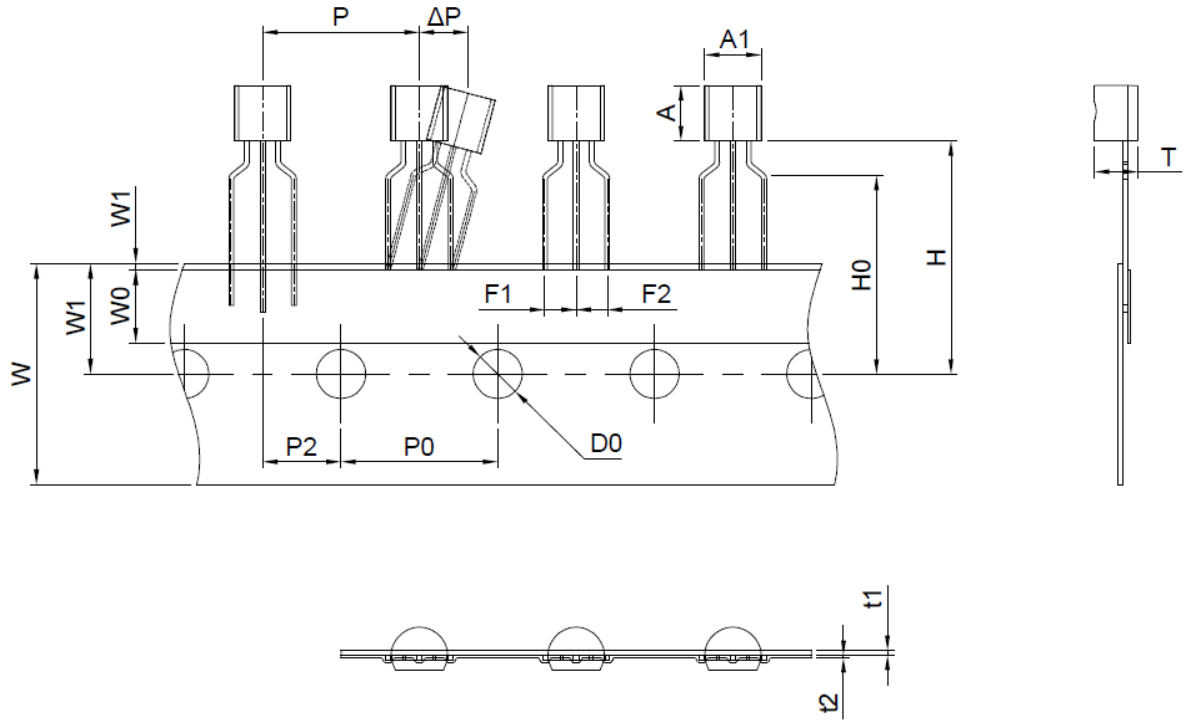
TO-92



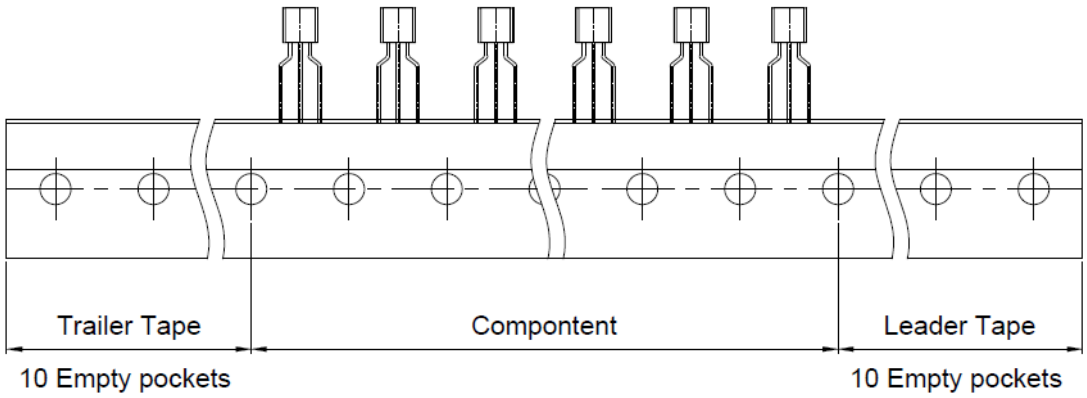
Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	3.30	3.70	0.130	0.146
A1	2.30	2.70	0.091	0.106
b	0.40	0.50	0.016	0.020
b1	0.50	0.70	0.020	0.028
c	0.35	0.45	0.014	0.018
D	4.45	4.70	0.175	0.185
E	4.40	4.65	0.173	0.183
e	1.17	1.37	0.046	0.054
e1	2.34	2.64	0.092	0.104
L	13.50	14.50	0.531	0.571
L1	1.80	2.20	0.071	0.087

Taping Dimensions

TO-92



Dimiensions are in millimeter								
A	**A1**	**T**	**P**	**P0**	**P2**	**F1**	**F2**	**W**
4.6	**4.6**	**3.5**	**12.7**	**12.7**	**6.35**	**2.54**	**2.54**	**18.0**
W0	**W1**	**W2**	**H**	**H0**	**D0**	**t1**	**T2**	**ΔP**
6.0	**9.0**	**1.0Max**	**19.0**	**18.0**	**4.0**	**0.4**	**0.2**	**0**



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