

TO-92 Plastic-Encapsulate Transistors

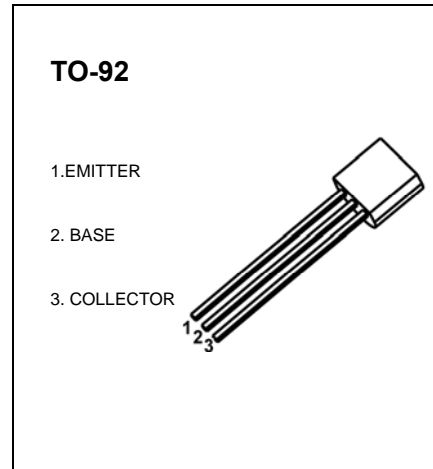
M8550 TRANSISTOR (PNP)

FEATURES

- Power Dissipation

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current -Continuous	-800	mA
P _C	Collector Power Dissipation	625	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

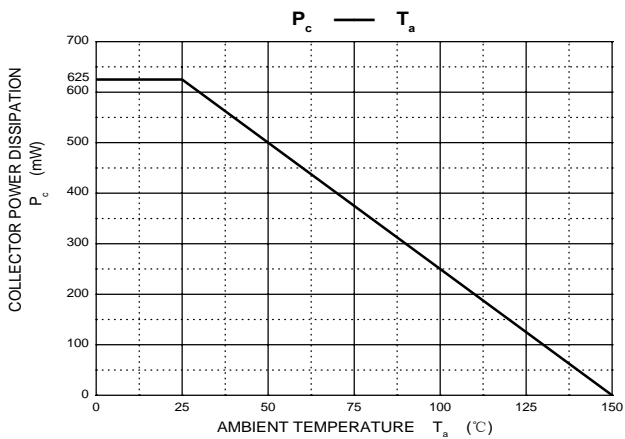
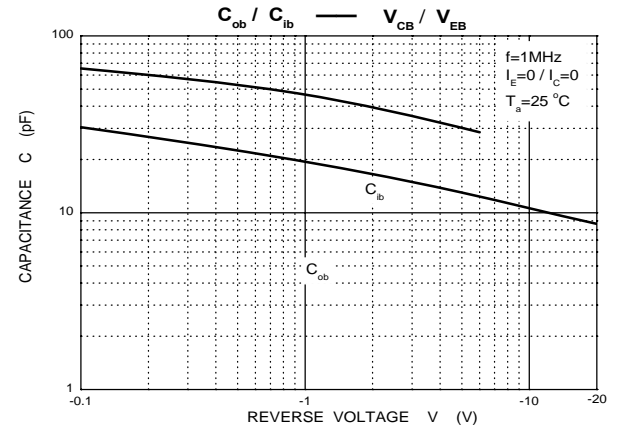
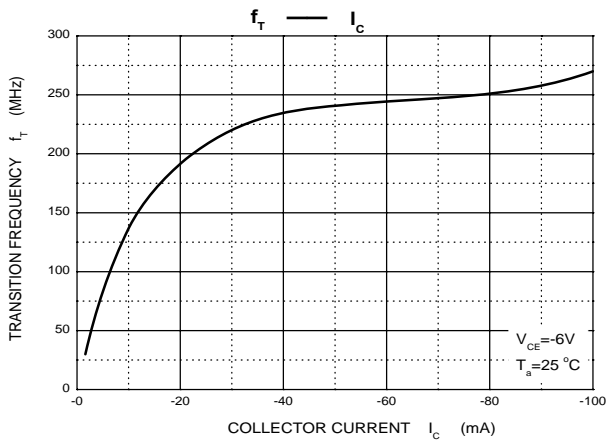
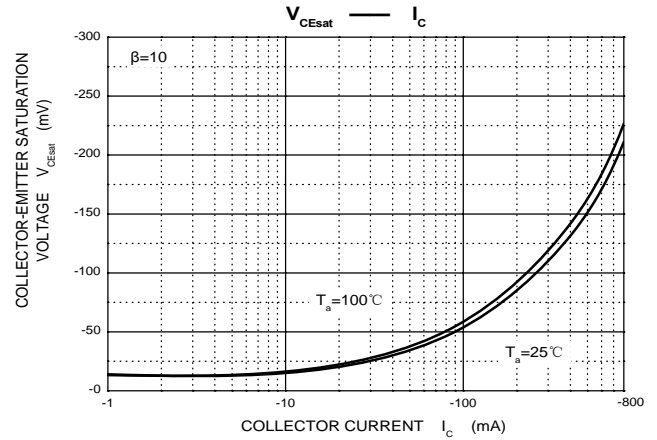
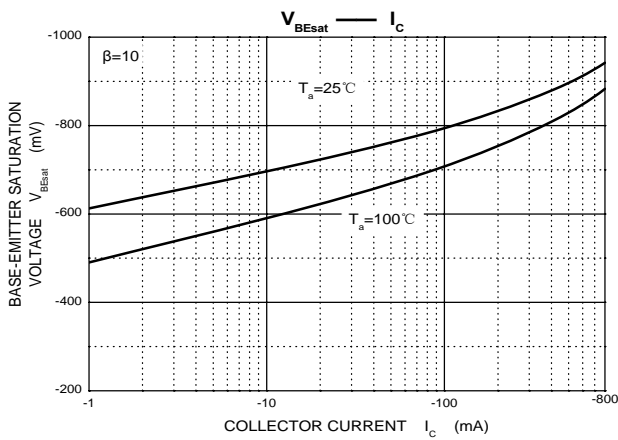
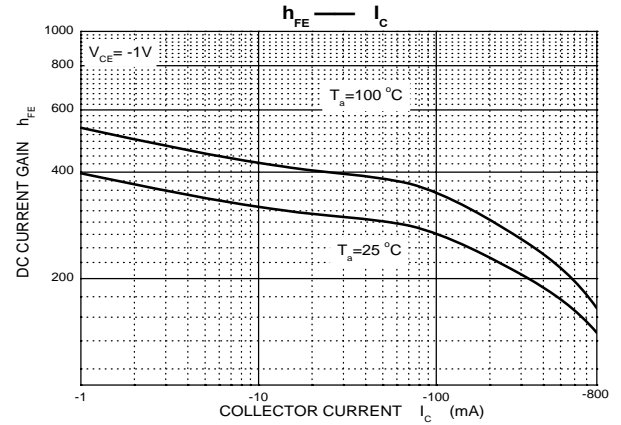
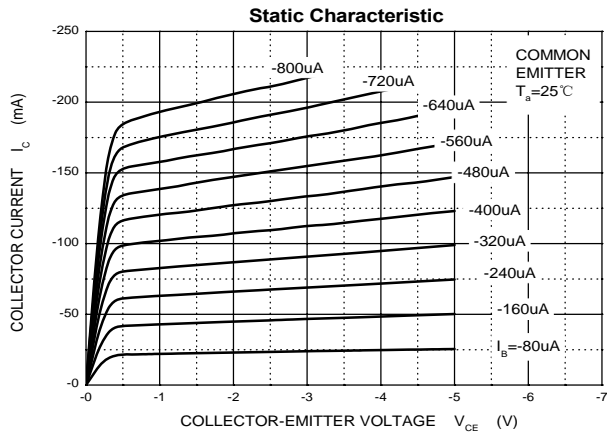
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V(BR) _{CB0}	I _C = -100μA, I _E =0	-40		V
Collector-emitter breakdown voltage	V(BR) _{CEO} *	I _C = -0.1mA, I _B =0	-25		V
Emitter-base breakdown voltage	V(BR) _{EBO}	I _E = -100μA, I _C =0	-6		V
Collector cut-off current	I _{CB0}	V _{CB} = -35V, I _E =0		-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -20V, I _B =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-5mA	45		
	h _{FE(2)}	V _{CE} =-1V, I _C =-100mA	80	400	
	h _{FE(3)}	V _{CE} =-1V, I _C =-800mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -800mA, I _B =-80mA		-0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-800mA, I _B =-80mA		-1.2	V
Transition frequency	f _T	V _{CE} =-6V, I _C = -20mA f=30MHz	150		MHz

*Pulse Test: pulse width ≤ 300μs, duty cycle ≤ 2%.

CLASSIFICATION OF h_{FE(2)}

Rank	B	C	D D3	
Range	80-160	120-200	160-300	300-400

Typical Characteristics



TO-92 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.300	4.700	0.169	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

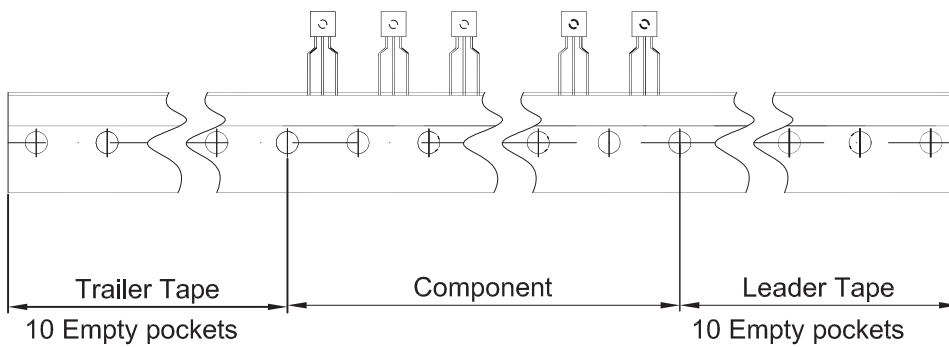
NOTICE

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TO-92 PACKAGE TAPEING DIMENSION



Dimiensions are in millimeter								
A1	A	T	P	P0	P2	F1	F2	W
4.5	4.5	3.5	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 MAX.	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250