

TO-92 Plastic-Encapsulate Transistors

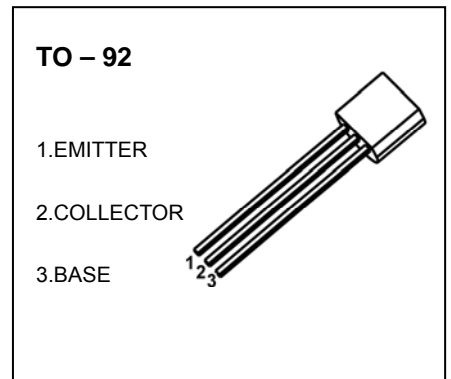
8550SS TRANSISTOR (PNP)

FEATURES

- General Purpose Switching and Amplification.

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

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-25	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-1.5	A
P _C	Collector Power Dissipation	1	W
R _{θJA}	Thermal Resistance From Junction To Ambient	125	°C/W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C



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

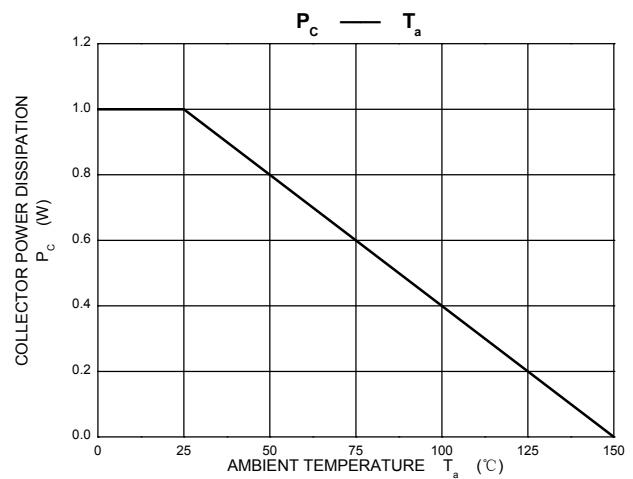
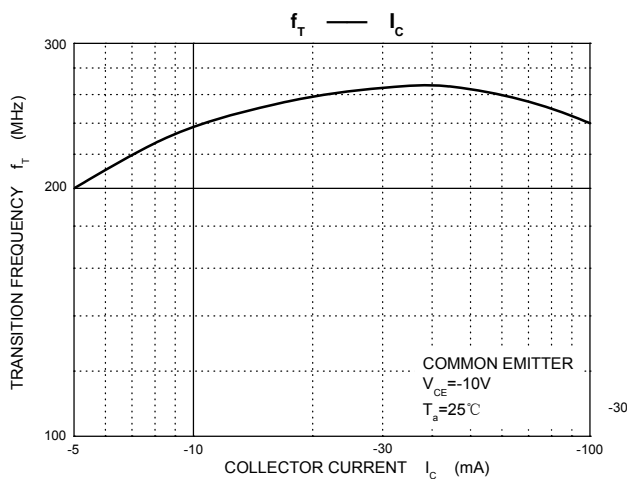
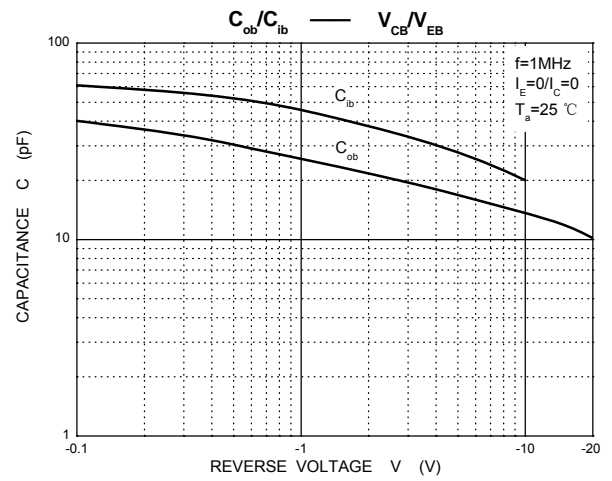
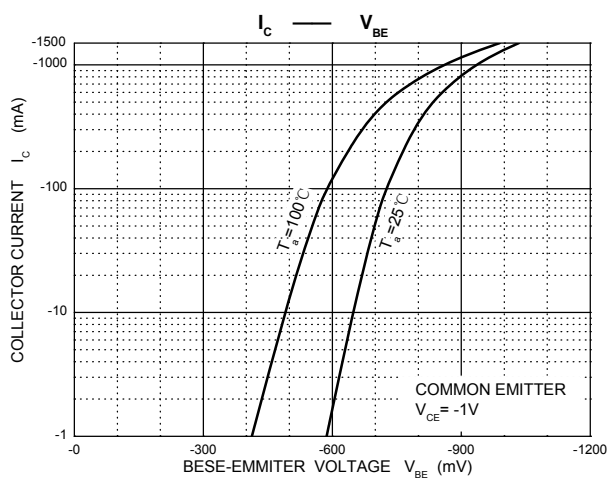
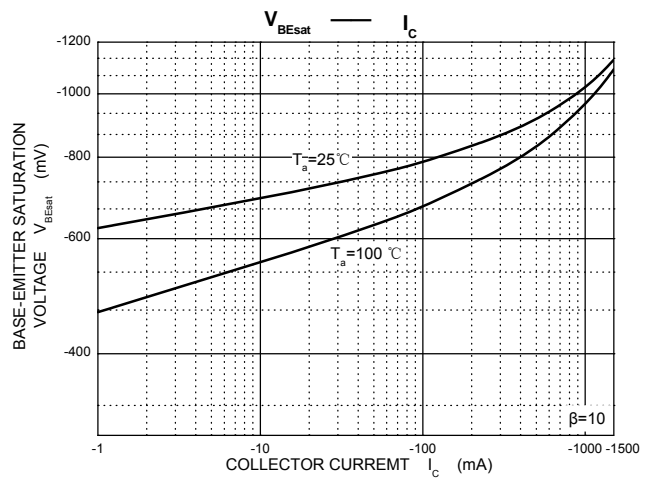
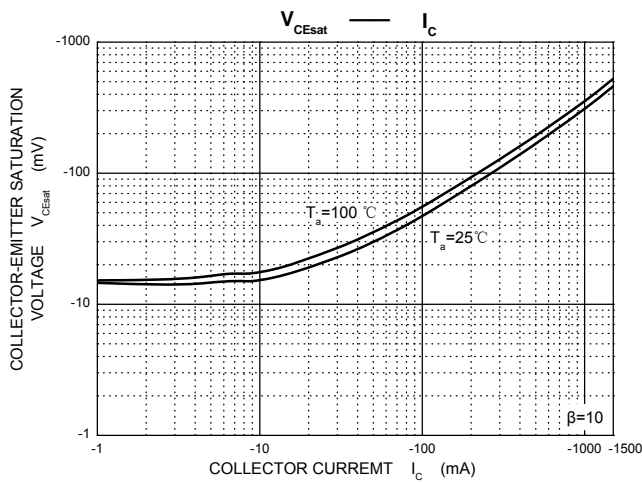
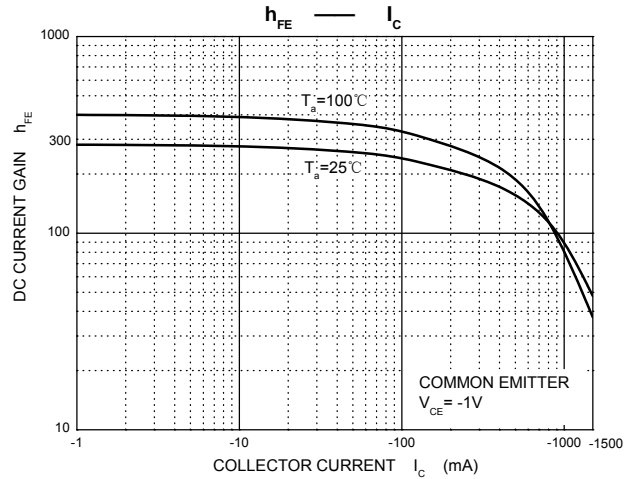
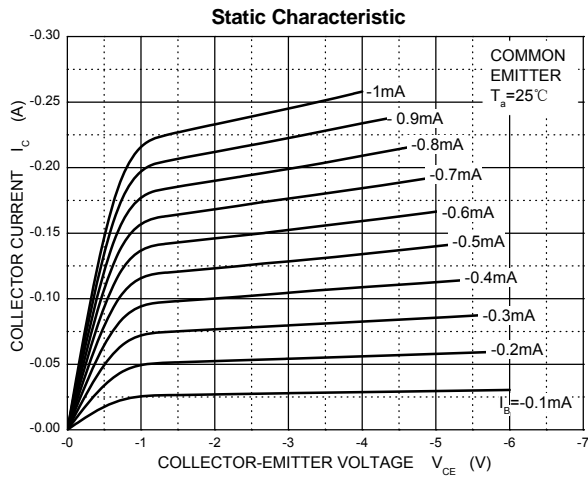
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CB0}	I _C = -0.1mA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA, I _B =0	-25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.1mA, I _C =0	-5			V
Collector cut-off current	I _{CB0}	V _{CB} =-40V, I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =-20V, I _B =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-100mA	85		300	
	h _{FE(2)}	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} =-10V, I _C =-50mA, f=30MHz	100			MHz

CLASSIFICATION OF h_{FE(1)}

RANK	B	C	D
RANGE	85-160	120-200	160-300

Typical Characteristics

8550SS



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