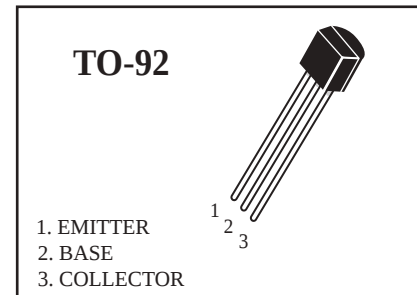
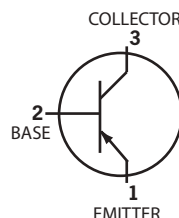


Plastic-Encapsulate Transistors

PNP Silicon

 Lead(Pb)-Free



ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

Rating	Symbol	SS8550	Unit
Collector-Emitter Voltage	V_{CE0}	-25	Vdc
Collector-Base Voltage	V_{CBO}	-40	Vdc
Emitter-Base Voltage	V_{EBO}	-5.0	Vdc
Collector Current	I_C	-1.5	Adc
Total Device Dissipation $T_A=25^{\circ}\text{C}$	P_D	1.0	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

DEVICE MARKING

SS8550=SS8550D

ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage ⁽¹⁾ ($I_C = -0.1\text{ mA}$, $I_E = 0$)	$V_{(BR)CEO}$	-25	-	Vdc
Collector-Base Breakdown Voltage ($I_C = -100\text{ uA}$, $I_E = 0$)	$V_{(BR)CBO}$	-40	-	Vdc
Emitter-Base Breakdown Voltage ($I_E = -100\text{ uA}$, $I_C = 0$)	$V_{(BR)EBO}$	-5.0	-	Vdc
Collector Cutoff Current ($V_{CB} = -40\text{ Vdc}$, $I_E = 0\text{ Vdc}$)	I_{CBO}	-	-0.1	μAdc
Emitter Cutoff Current ($V_{EB} = -5\text{ Vdc}$, $I_C = 0\text{ Vdc}$)	I_{EBO}	-	-0.1	μAdc

1. Pulse Test: Pulse Width $\leq 300\text{ us}$, Duty Cycle $\leq 2.0\%$

SS8550**ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$ unless otherwise noted) (Continued)

Characteristics	Symbol	Min	TYP	Max	Unit
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ON CHARACTERISTICS

DC Current Gain ($I_C = -100\text{ mA}$, $V_{CE} = -1.0\text{ Vdc}$)	$h_{FE(1)}$	85	-	400	-
DC Current Gain ($I_C = -800\text{ mA}$, $V_{CE} = -1.0\text{ Vdc}$)	$h_{FE(2)}$	40	-	-	-
Collector-Emitter Saturation Voltage ($I_C = -800\text{ mA}$, $I_B = -80\text{ mA}$)	$V_{CE(sat)}$	-	-	-0.5	Vdc
Base-Emitter Saturation Voltage ($I_C = -800\text{ mA}$, $I_B = -80\text{ mA}$)	$V_{BE(sat)}$	-	-	-1.2	Vdc
Transition Frequency ($V_{CE} = -10\text{ V}$, $I_C = -50\text{ mA}$, $f = 30\text{ MHz}$)	f_T	100	-	-	MHz

Classification of $h_{FE(1)}$

Rank	B	C	D	E
Range	85-160	120-200	160-300	300-400

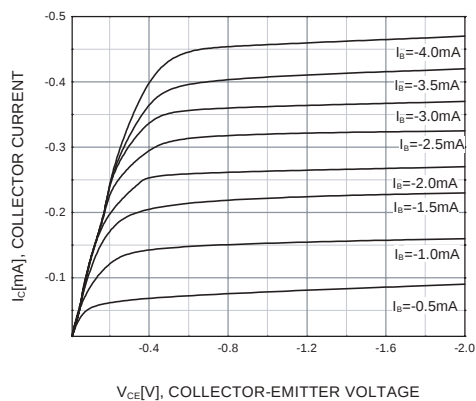


FIG.1 Static Characteristic

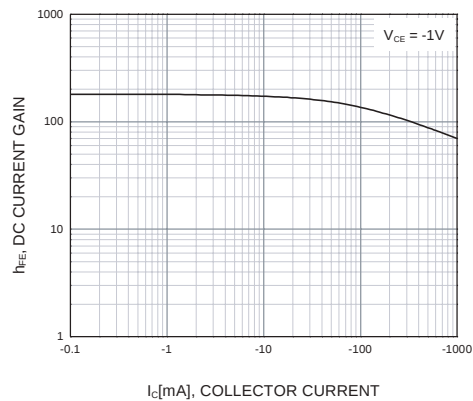
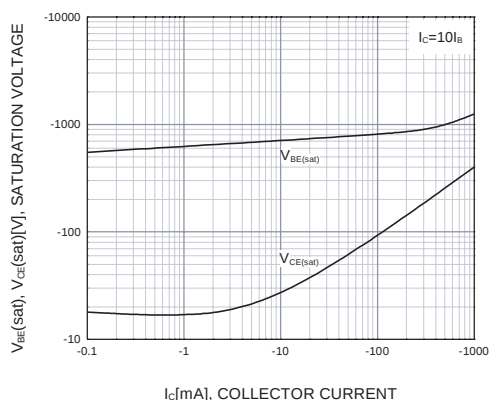


FIG.2 DC Current Gain



**FIG.3 Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**

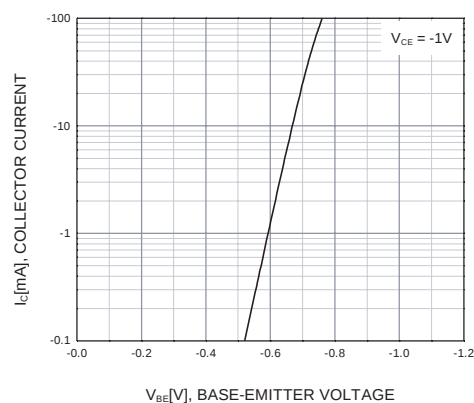


FIG.4 Base-Emitter On Voltage

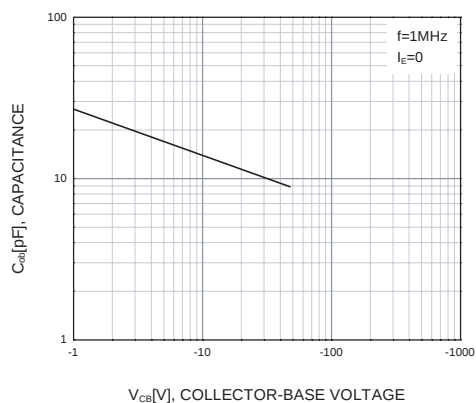


FIG.5 Collector Output Capacitance

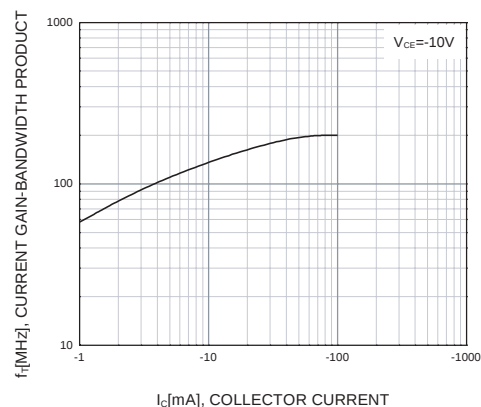
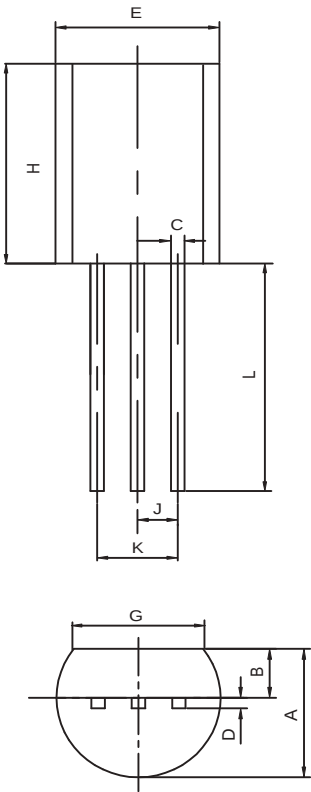


FIG.6 Current Gain Bandwidth Product

TO-92 Outline Dimensions

unit:mm



TO-92		
Dim	Min	Max
A	3.30	3.70
B	1.10	1.40
C	0.38	0.55
D	0.36	0.51
E	4.40	4.70
G	3.43	-
H	4.30	4.70
J	1.270TYP	
K	2.44	2.64
L	14.10	14.50