



TO-92 Plastic-Encapsulate Transistors

8550SS TRANSISTOR (PNP)

FEATURES

Power dissipation

P_{CM} : 1W ($T_{amb}=25$)

Collector current

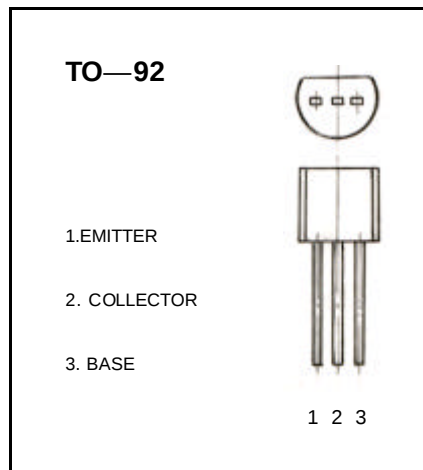
I_{CM} : -1.5 A

Collector-base voltage

$V_{(BR)CBO}$: - 40V

Operating and storage junction temperature range

T_J , T_{stg} : -55 to +150



ELECTRICAL CHARACTERISTICS ($T_{amb}=25$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100 \mu A$, $I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -0.1 mA$, $I_B = 0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100 \mu A$, $I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -40 V$, $I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -20 V$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 V$, $I_C = 0$			-0.1	MA
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V$, $I_C = -100 mA$	85		300	
	$h_{FE(2)}$	$V_{CE} = -1V$, $I_C = -800 mA$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -800 m$, $I_B = -80 mA$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -800 mA$, $I_B = -80 mA$			-1.2	V
Transition frequency	f_T	$V_{CE} = -10 V$, $I_C = -50 mA$ $f = 30 MHz$	100			MHz

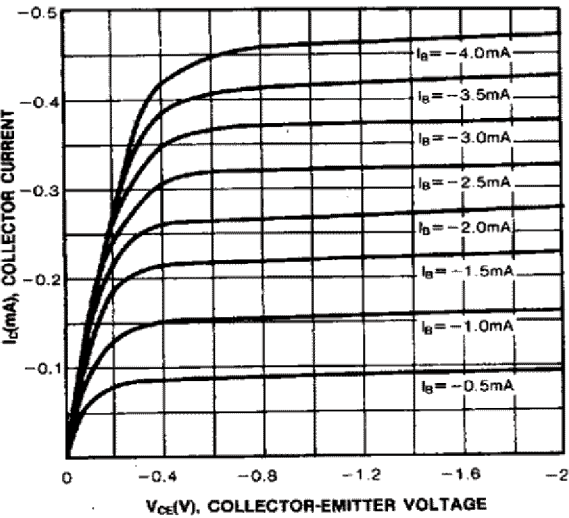
CLASSIFICATION OF $h_{FE(1)}$

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

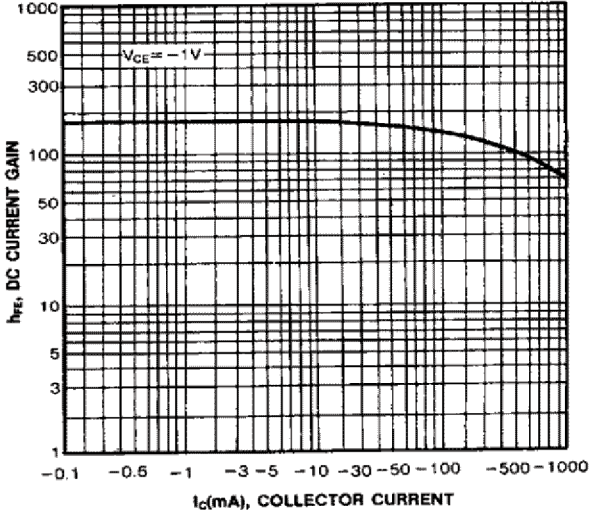
Typical Characteristics

8550SS

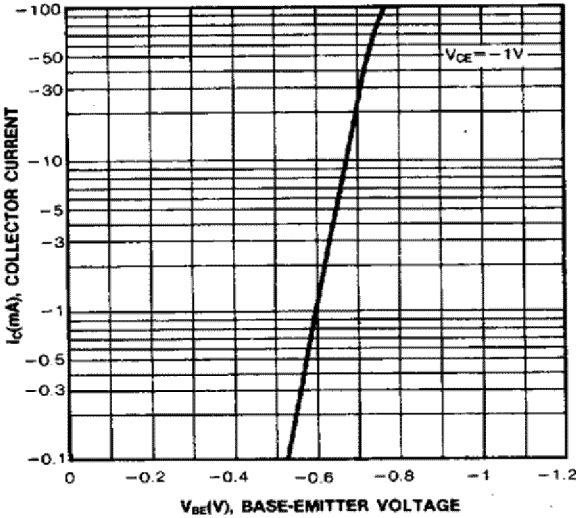
STATIC CHARACTERISTIC



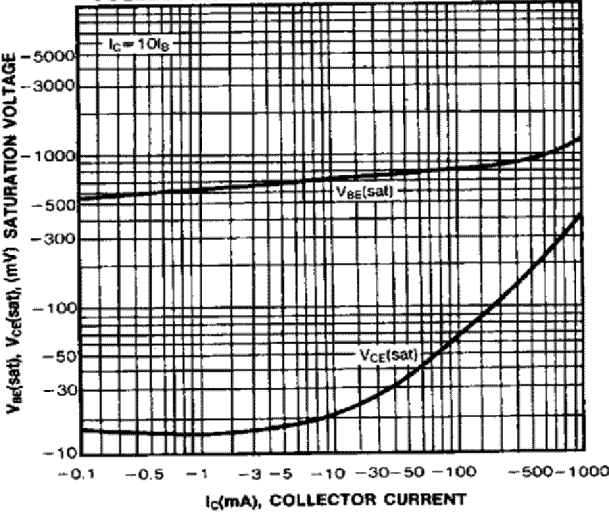
DC CURRENT GAIN



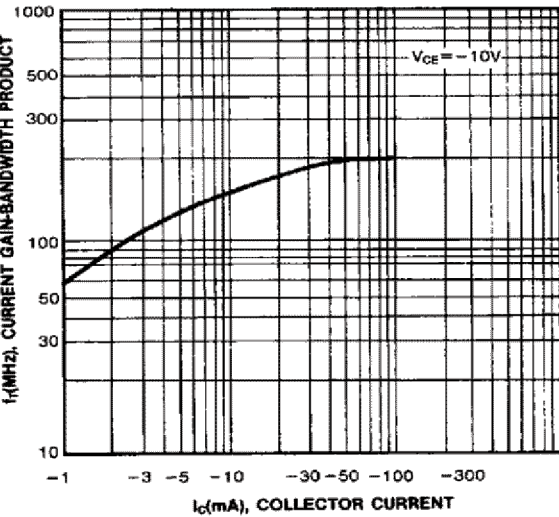
BASE-EMITTER ON VOLTAGE



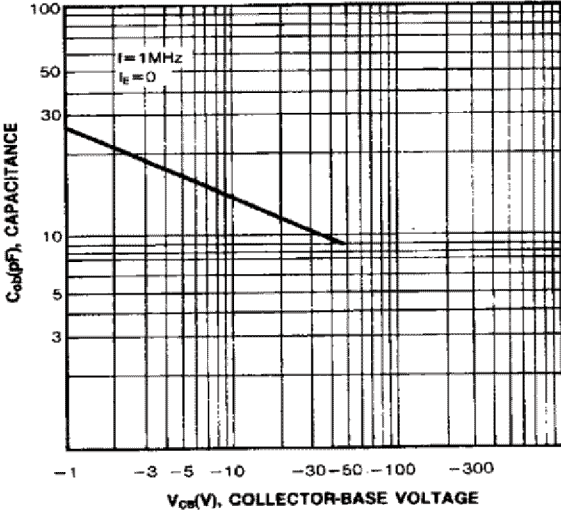
BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



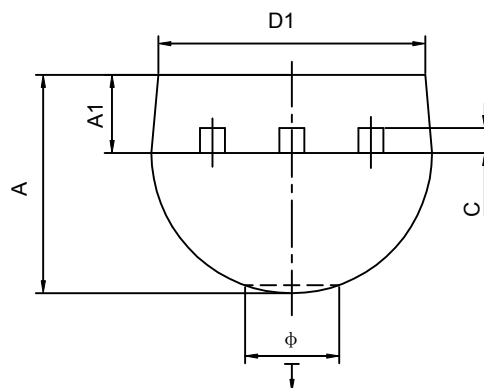
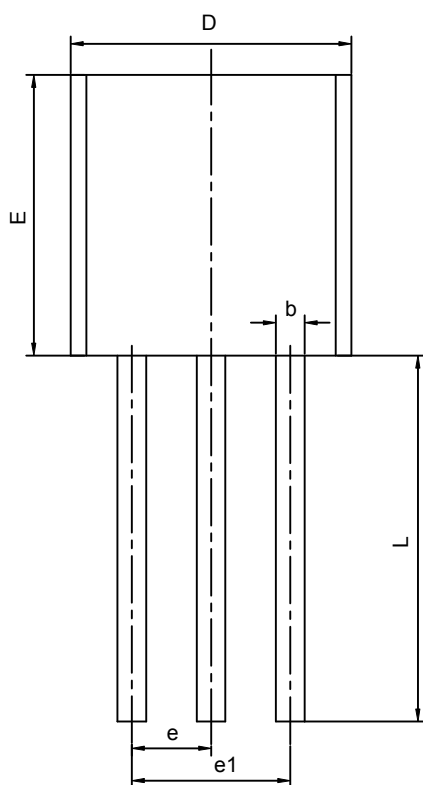
CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR OUTPUT CAPACITANCE



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	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Ö		1.600		0.063
↓	0.000	0.380	0.000	0.015