

# TO-92 Plastic-Encapsulate Transistors

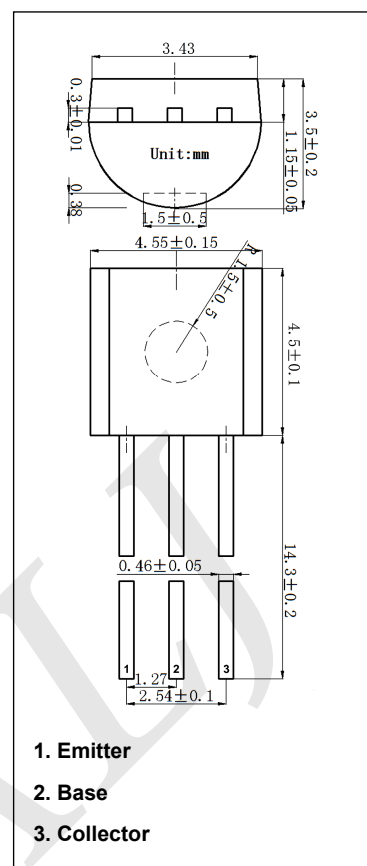
## S8550D331 PNP Transistors

### Features

- Excellent  $h_{FE}$  Linearity

### Maximum Ratings ( $T_a=25^{\circ}C$ unless otherwise noted)

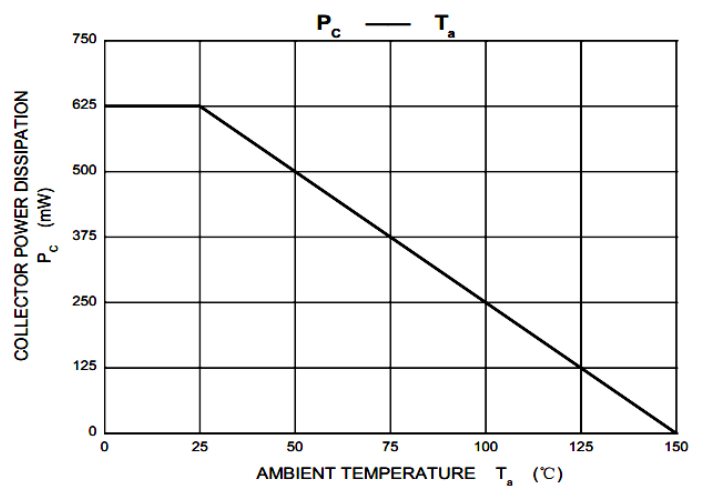
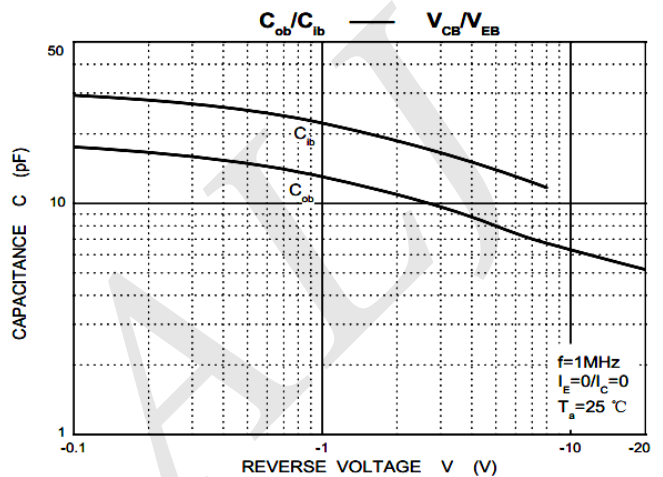
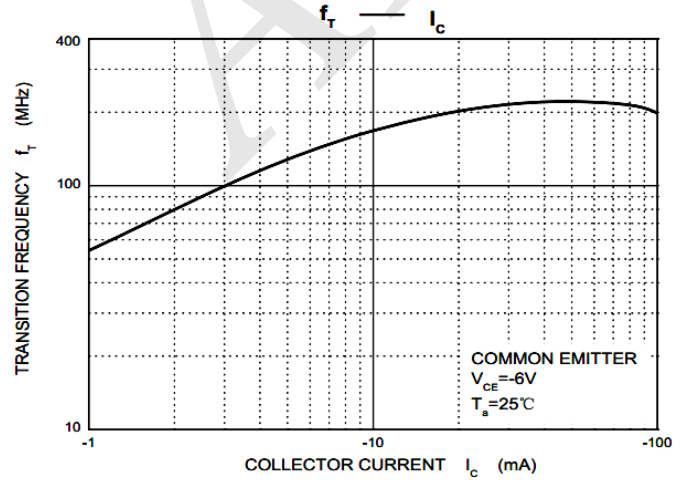
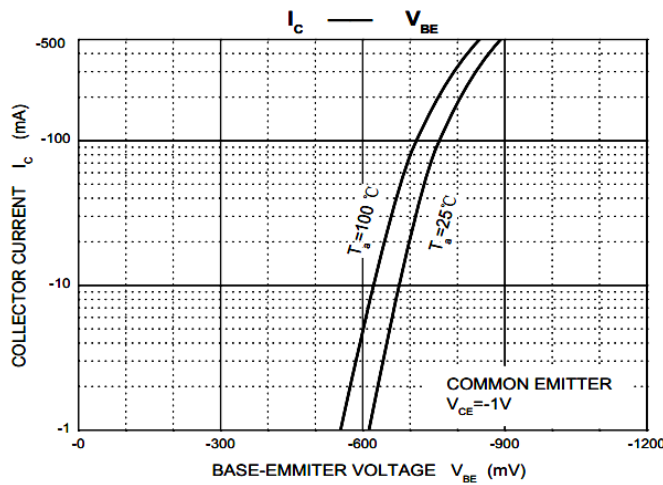
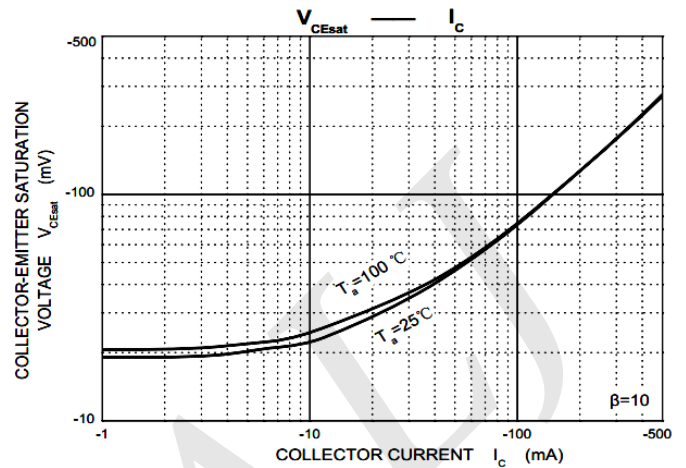
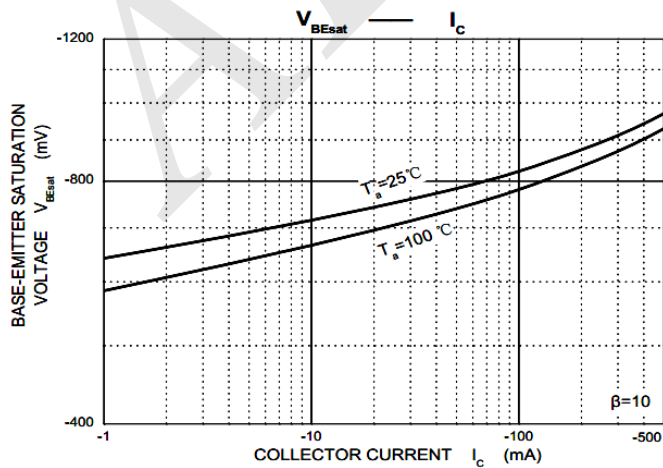
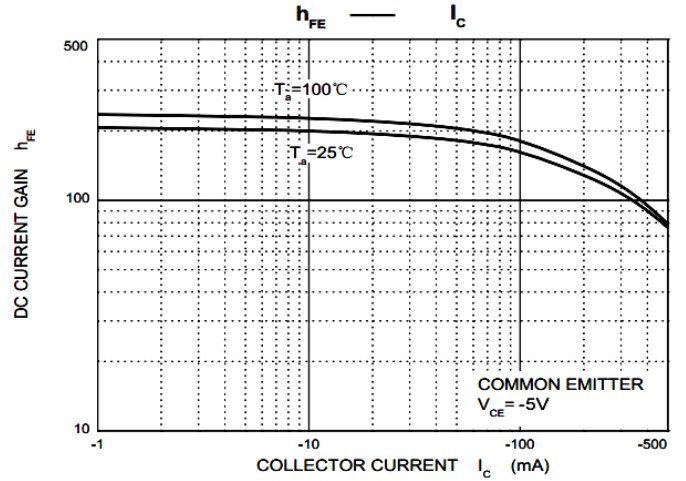
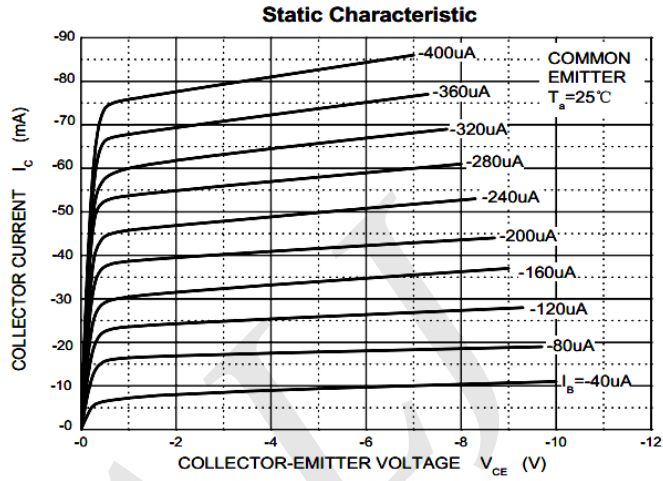
Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector Base Voltage	-40	V
$V_{CEO}$	Collector Emitter Voltage	-25	V
$V_{EBO}$	Emitter Base Voltage	-5	V
$I_c$	Collector Current	-800	mA
$P_c$	Collector Power Dissipation	625	mW
$T_j$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature	- 55 to +150	$^{\circ}C$



### Electrical Characteristics ( $T_a=25^{\circ}C$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_c=-100\mu A, I_E=0$	-40			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_c=-1mA, I_B=0$	-25			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-100\mu A, I_c=0$	-5			V
$I_{cBO}$	Collector cut-off current	$V_{CB}=-40V, I_E=0$			-100	nA
$I_{cEO}$	Collector cut-off current	$V_{CE}=-20V, I_B=0$			-100	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB}=-3V, I_c=0$			-100	nA
$h_{FE(1)}$	DC current gain	$V_{CE}=-1V, I_c=-50mA$	100		200	
$h_{FE(2)}$		$V_{CE}=-1V, I_c=-500mA$	50			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_c=-500mA, I_B=-50mA$			-0.6	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_c=-500mA, I_B=-50mA$			-1.2	V
$f_T$	Transition frequency	$V_{CE}=-6V, I_c=-20mA, f=30MHz$	150			MHz

# Typical Characteristics



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