

## TO-92 Plastic-Encapsulate Transistors

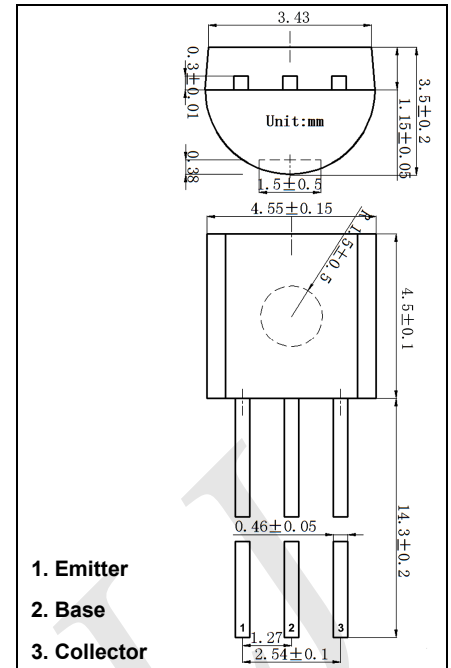
### SS8550D331 PNP Transistors

#### Features

- Power Dissipation  
 $P_{CM} : 1W (T_A=25^{\circ}C)$

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

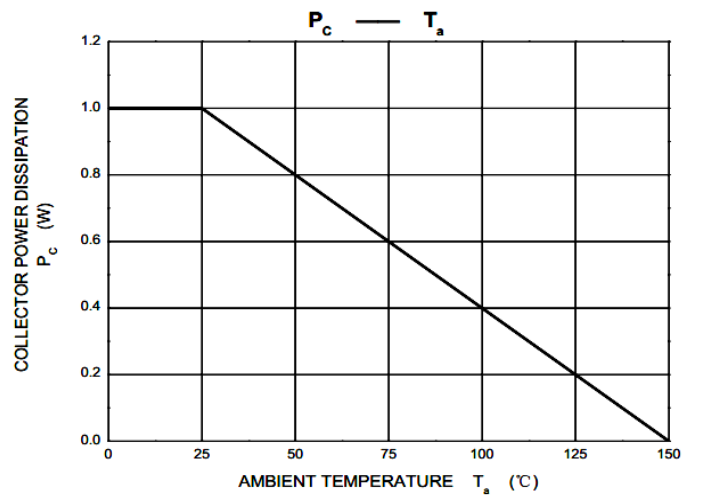
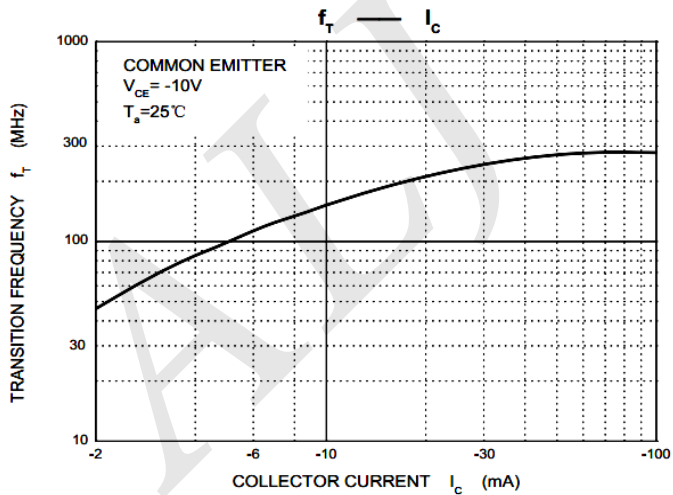
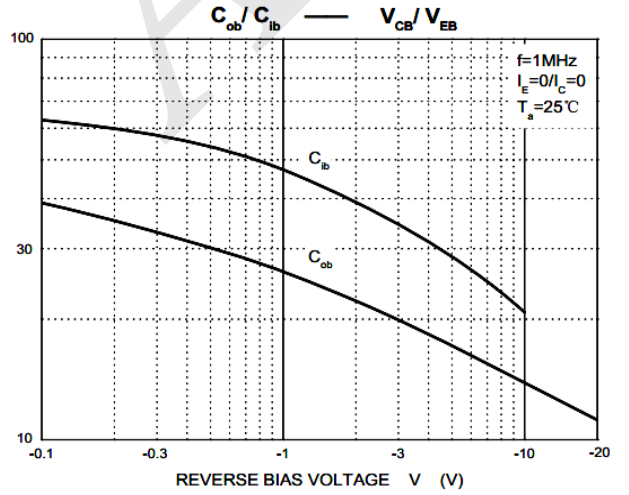
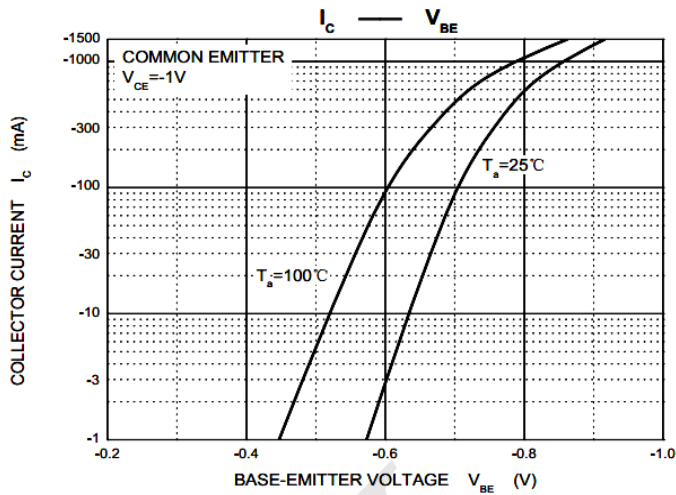
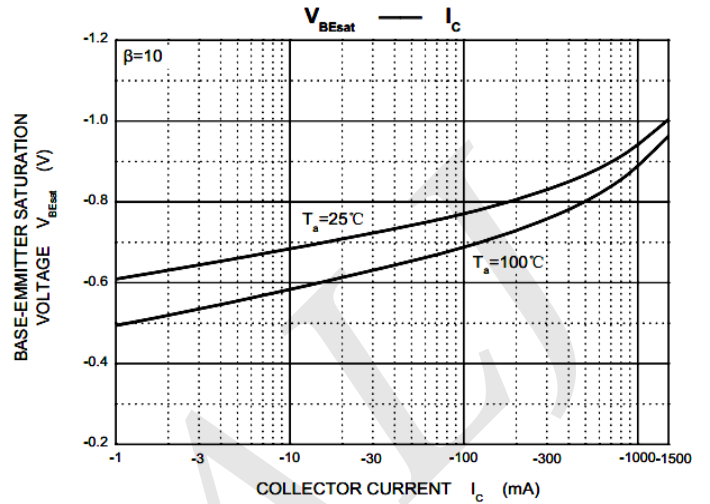
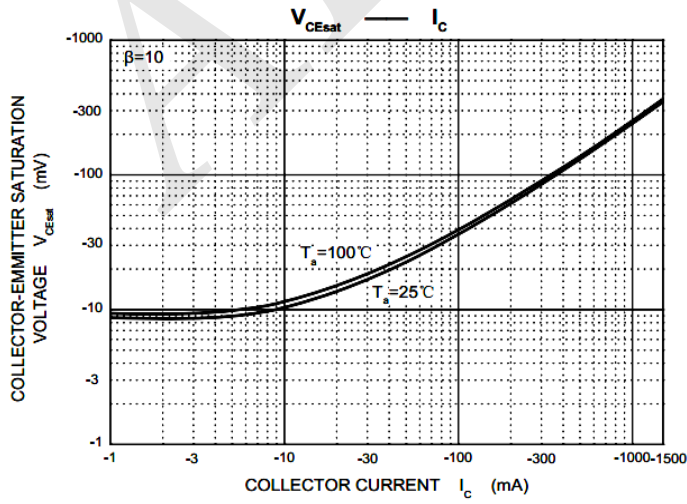
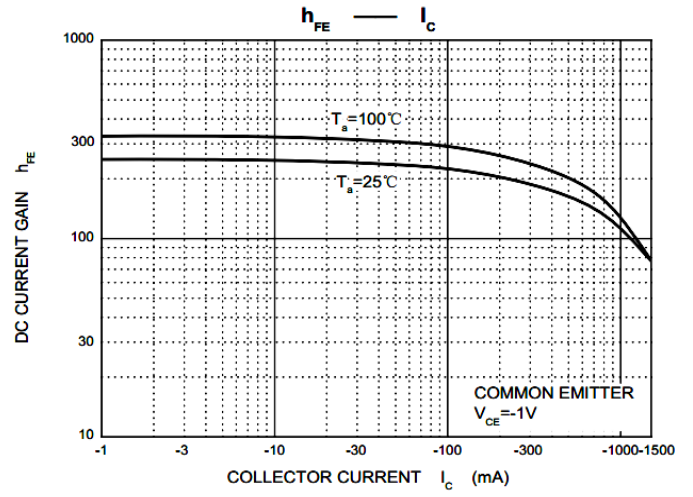
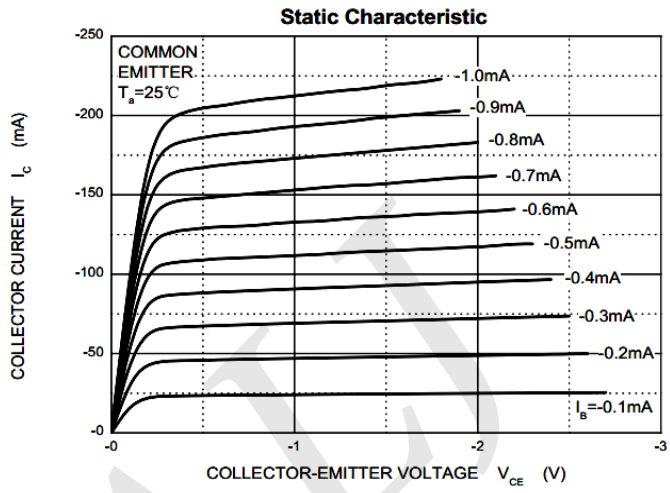
Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector Base Voltage	-40	V
$V_{CEO}$	Collector Emitter Voltage	-25	V
$V_{EBO}$	Emitter Base Voltage	-5	V
$I_c$	Collector Current	-1.5	A
$T_j$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature	-55 ~ 150	$^{\circ}C$



#### 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	$V_{EB} = -5V, I_c = 0$			-100	nA
$h_{FE(1)}$	DC current gain	$V_{CE} = -1V, I_c = -100mA$	160		300	
$h_{FE(2)}$		$V_{CE} = -1V, I_c = -800mA$	40			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_c = -800mA, I_B = -80mA$			-0.5	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_c = -800mA, I_B = -80mA$			-1.2	V
$V_{BE(on)}$	Base-emitter voltage	$V_{CE} = -1V, I_c = -10mA$			-1	V
$C_{ob}$	Out capacitance	$V_{CB} = -10V, I_E=0mA, f=1MHZ$			20	pF
$f_T$	Transition frequency	$V_{CE} = -10V, I_c = -50mA, f=30MHZ$	100			MHz

# Typical Characteristics



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