



# SOT-23 Plastic-Encapsulate Transistors

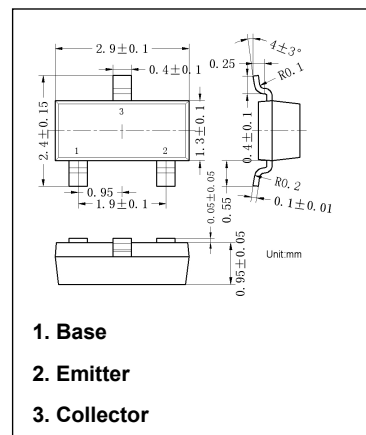
## BC857C PNP Transistors

### Features

- Ideally suited for automatic insertion
- For switching and AF amplifier applications

### Marking

- BC857A: 3E
- BC857B: 3F
- BC857C: 3G



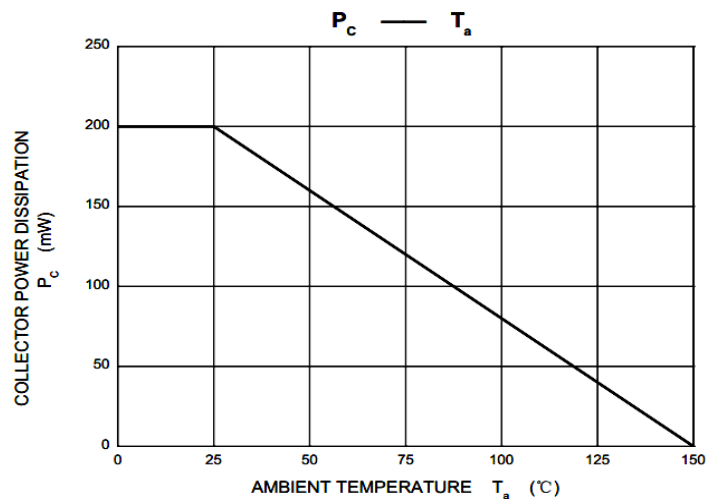
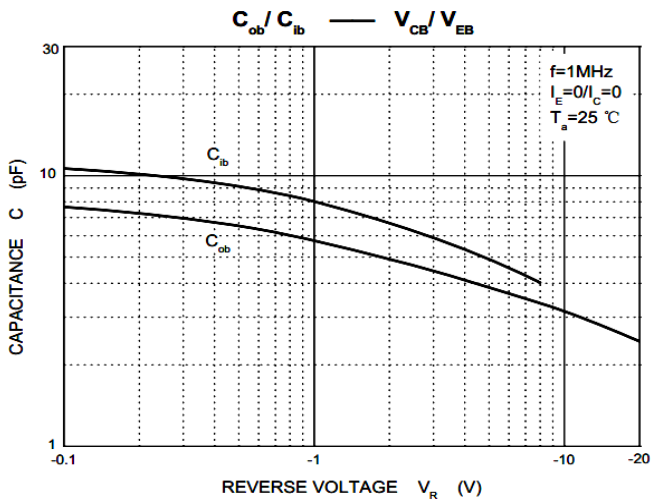
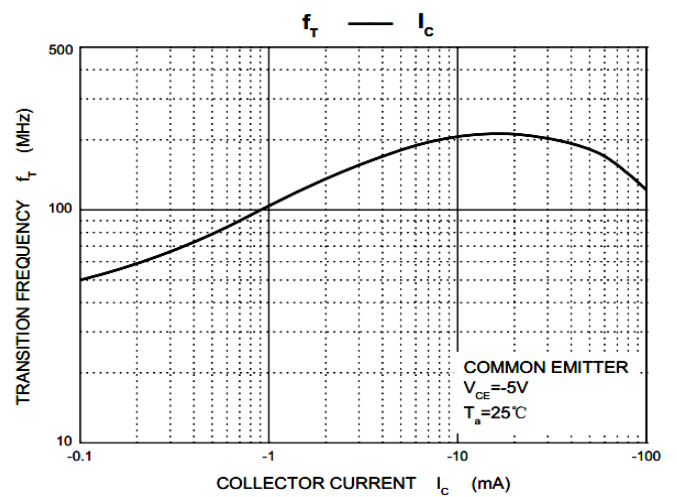
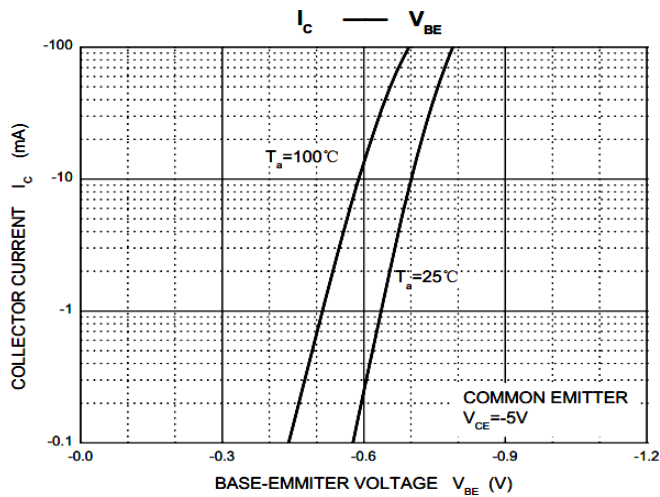
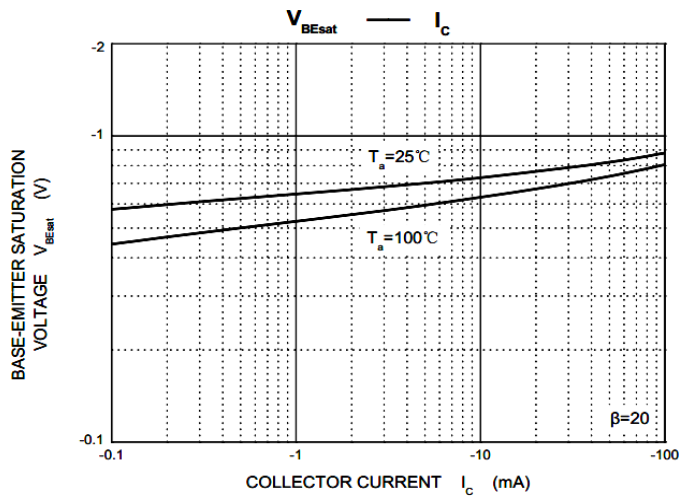
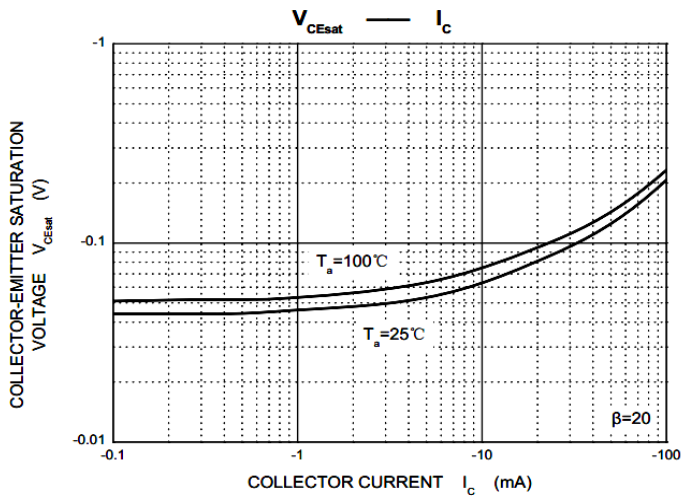
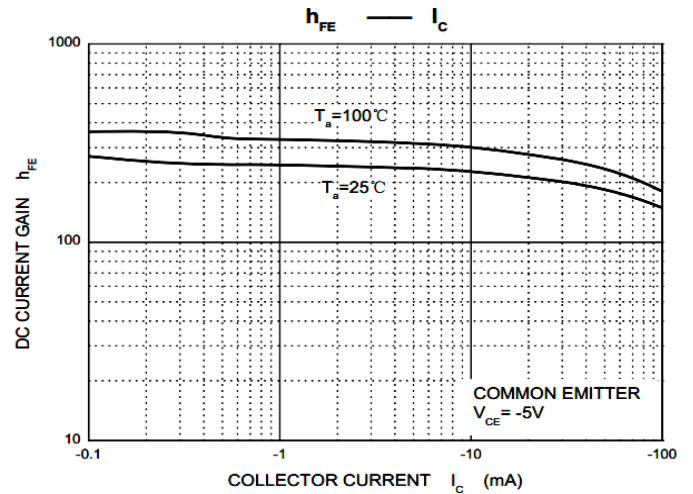
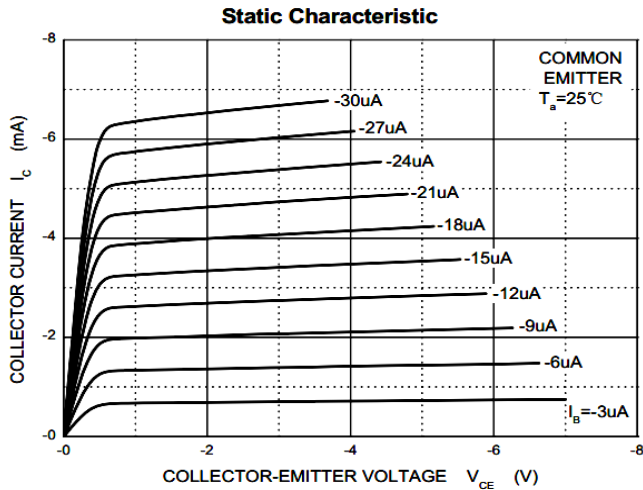
### Maximum Ratings ( $T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CB0}$	Collector Base Voltage	-50	V
$V_{CEO}$	Collector Emitter Voltage	-45	V
$V_{EBO}$	Emitter Base Voltage	-5	V
$I_c$	Collector Current	-0.1	A
$P_c$	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	$^\circ\text{C}/\text{W}$
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	- 55 to +150	$^\circ\text{C}$

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit	
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_c = -10\mu\text{A}, I_E = 0$	-50			V	
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_c = -10\text{mA}, I_B = 0$	-45			V	
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -1\mu\text{A}, I_c = 0$	-5			V	
$I_{CBO}$	Collector cut-off current	$V_{CB} = -45\text{V}, I_E = 0$			-100	nA	
$I_{CEO}$	Collector cut-off current	$V_{CE} = -40\text{V}, I_B = 0$			-100	nA	
$I_{EBO}$	Emitter cut-off current	$V_{EB} = -5\text{V}, I_c = 0$			-100	nA	
$h_{FE}$	DC current gain	BC857A	$V_{CE} = -5\text{V}, I_c = -2\text{mA}$	125	210	250	
		BC857B		220	310	475	
		BC857C		420	520	800	
			$V_{CE} = -5\text{V}, I_c = -1\text{mA}$	125			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_c = -100\text{mA}, I_B = -5\text{mA}$			-0.5	V	
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_c = -100\text{mA}, I_B = -5\text{mA}$			-1.1	V	
$f_r$	Transition frequency	$V_{CE} = -5\text{V}, I_c = -10\text{mA}, f = 100\text{MHz}$	100			MHz	
$C_{ob}$	Collector output capacitance	$V_{CB} = -10\text{V}, f = 1\text{MHz}$			4.5	pF	

# Typical Characteristics



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