



# SOT-23 Plastic-Encapsulate Transistors

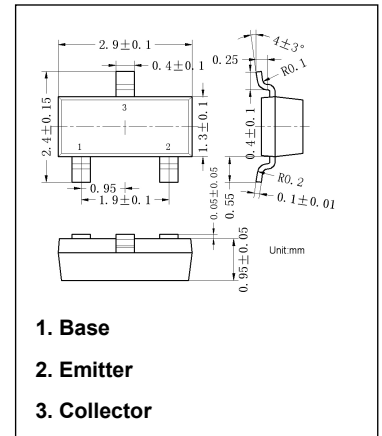
## BC848C NPN Transistors

### Features

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

### Marking

- BC848A: 1J
- BC848B: 1K
- BC848C: 1L



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

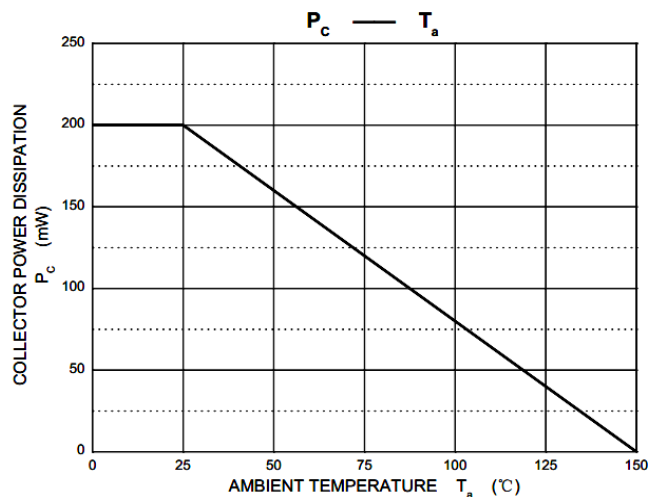
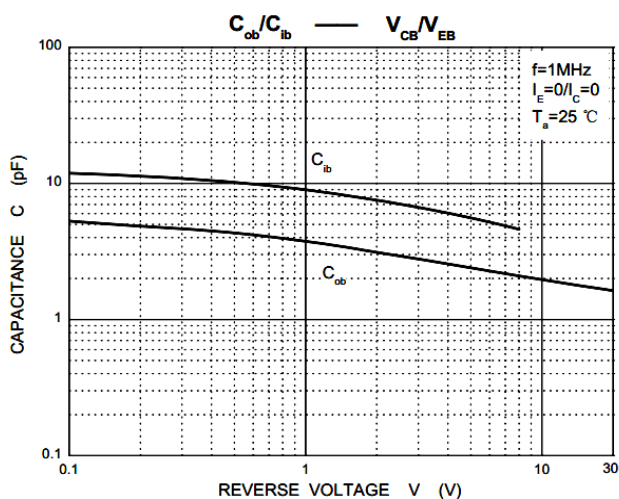
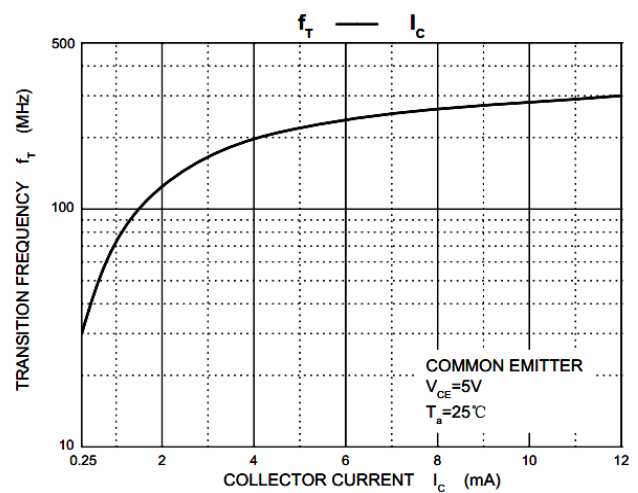
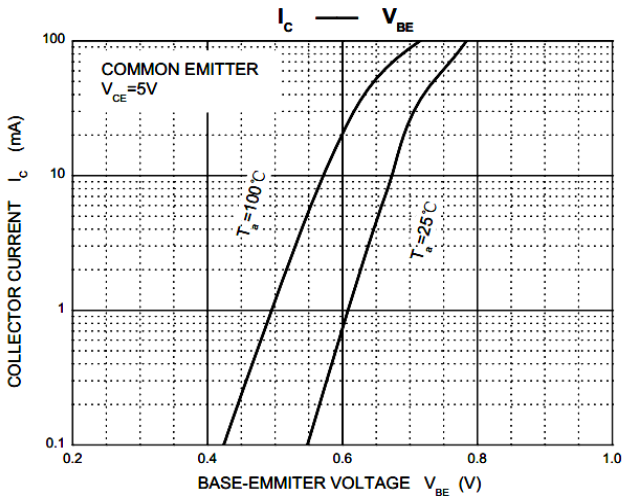
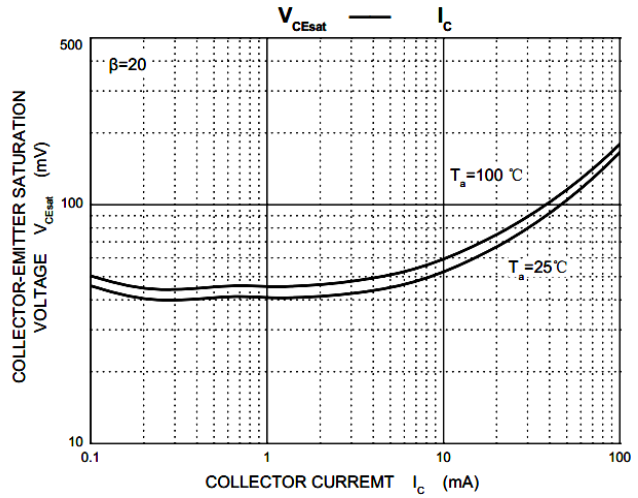
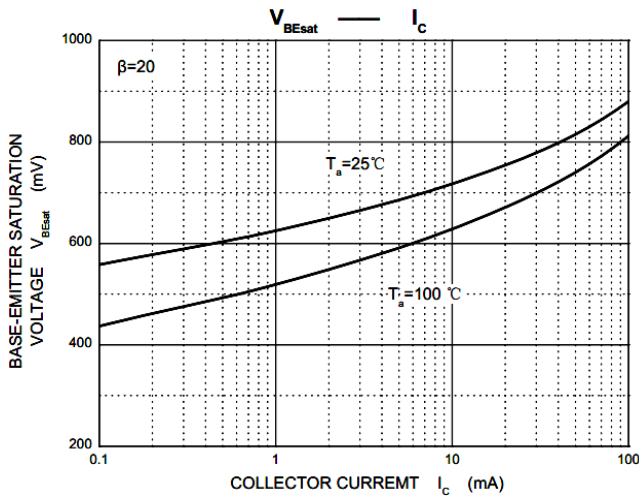
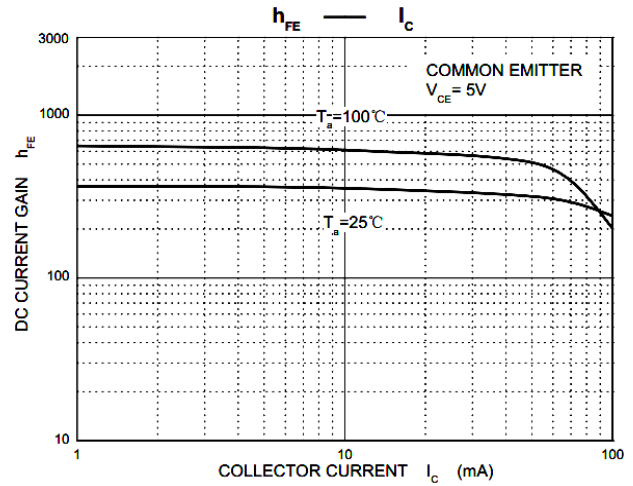
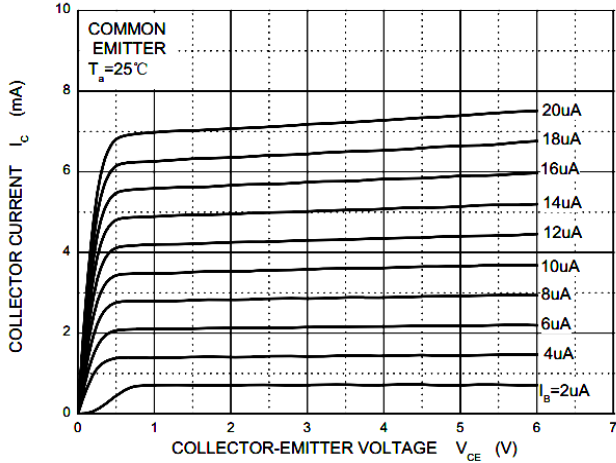
Symbol	Parameter	Value	Unit
$V_{CB0}$	Collector Base Voltage	30	V
$V_{CE0}$	Collector Emitter Voltage	30	V
$V_{EB0}$	Emitter Base Voltage	6	V
$I_c$	Collector Current	0.1	A
$P_c$	Collector Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	$^\circ\text{C}/\text{W}$
$T_j$	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
$V_{(BR)CB0}$	Collector-base breakdown voltage	$I_c=10\mu\text{A}, I_E=0$	30			V
$V_{(BR)CE0}$	Collector-emitter breakdown voltage	$I_c=10\text{mA}, I_B=0$	30			V
$V_{(BR)EB0}$	Emitter-base breakdown voltage	$I_E=10\mu\text{A}, I_c=0$	6			V
$I_{cB0}$	Collector cut-off current	$V_{CB}=30\text{V}, I_E=0$			100	nA
$I_{cEO}$	Collector cut-off current	$V_{CE}=30\text{V}, I_B=0$			100	nA
$I_{eB0}$	Emitter cut-off current	$V_{EB}=5\text{V}, I_c=0$			100	nA
$h_{FE}$	DC current gain	BC848A	110		220	
		BC848B				
		BC848C				
		$V_{CE} = 5\text{V}, I_c = 2\text{mA}$	110			
$V_{CE(sat)}$	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
$f_T$	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

Static Characteristic



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