

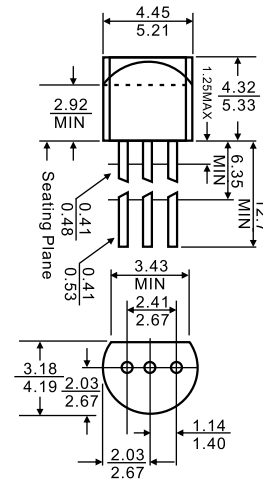
BC546/BC547/BC548(NPN)

TO-92 Bipolar Transistors



1. COLLECTOR
2. BASE
3. EMITTER

TO-92



Dimensions in inches and (millimeters)

Features

- ◇ High Voltage
- ◇ Complement to BC556,BC557,BC558

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	BC546 80 BC547 50 BC548 30	V
	Collector-Emitter Voltage	BC546 65 BC547 45 BC548 30	V
	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	100	mA
P_D	Total Device Dissipation	625	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^\circ\text{C}$ unless otherwise specified)

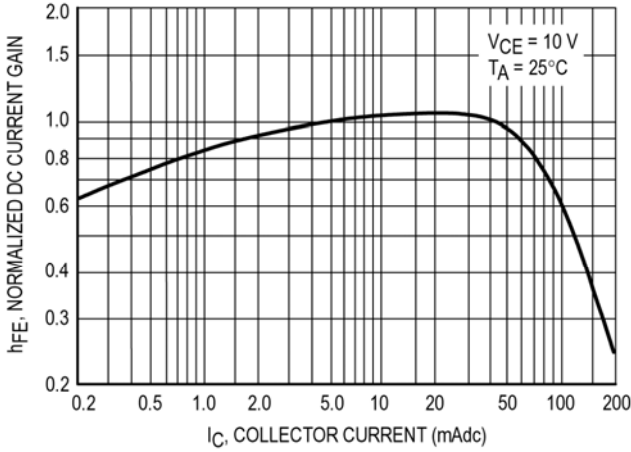
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BC546 BC547 BC548	V_{CBO} $I_C=100\mu\text{A}, I_E=0$	80 50 30		V
Collector-emitter breakdown voltage	BC546 BC547 BC548	V_{CEO} $I_C=1\text{mA}, I_B=0$	65 45 30		V
Emitter-base breakdown voltage		V_{EBO} $I_E=10\mu\text{A}, I_C=0$	6		V
Collector cut-off current	BC546 BC547 BC548	I_{CBO} $V_{CB}=70\text{V}, I_E=0$ $V_{CB}=50\text{V}, I_E=0$ $V_{CB}=30\text{V}, I_E=0$		0.1	μA
Collector cut-off current	BC546 BC547 BC548	I_{CEO} $V_{CE}=60\text{V}, I_B=0$ $V_{CE}=45\text{V}, I_B=0$ $V_{CE}=30\text{V}, I_B=0$		0.1	μA
Emitter cut-off current	BC546 BC547 BC548	I_{EBO} $V_{EB}=5\text{V}, I_C=0$		0.1	μA
DC current gain	BC546 BC547 BC548 BC546A/BC547A/BC548A BC546B/BC547B/BC548B BC546C/BC547C/BC548C	h_{FE} $V_{CE}=5\text{V}, I_C=2\text{mA}$	110 110 110 110 200 420	800 800 800 220 450 800	
Collector-emitter saturation voltage		$V_{CE(sat)}$ $I_C=100\text{mA}, I_B=5\text{mA}$		0.3	V
Base-emitter saturation voltage		$V_{BE(sat)}$ $I_C=100\text{mA}, I_B=5\text{mA}$		1.1	V
Transition frequency		f_T $V_{CE}=5\text{V}, I_C=10\text{mA}$ $f=100\text{MHz}$	150		MHz

BC546/BC547/BC548(NPN)

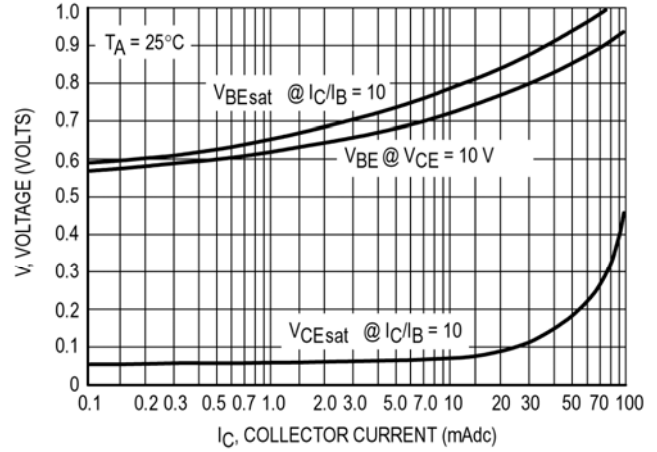
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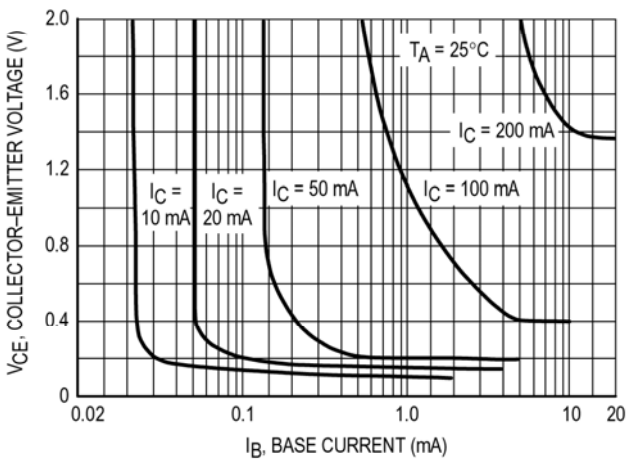
Typical Characteristics



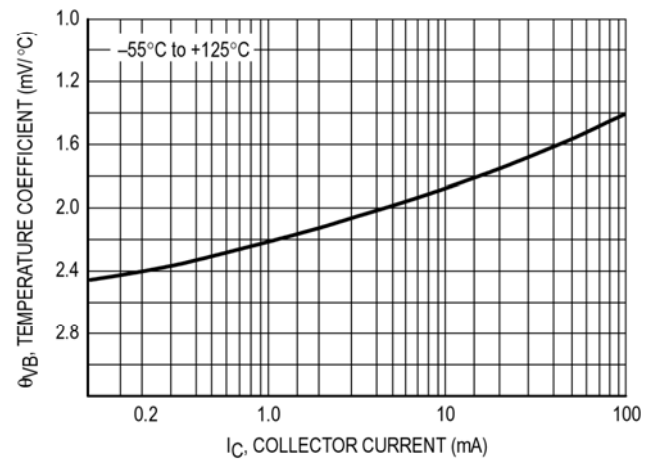
Normalized DC Current Gain



"Saturation" and "On" Voltages

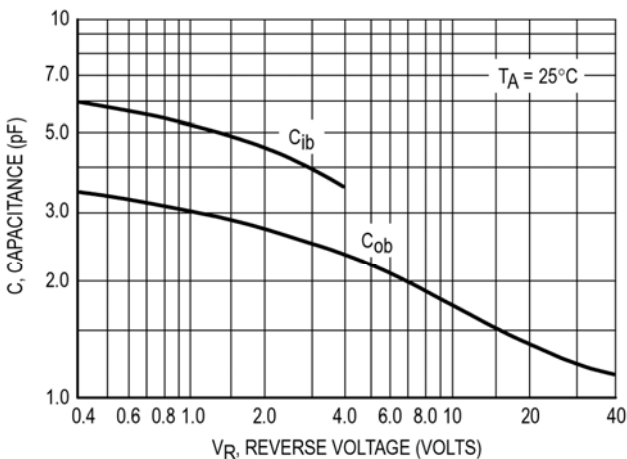


Collector Saturation Region

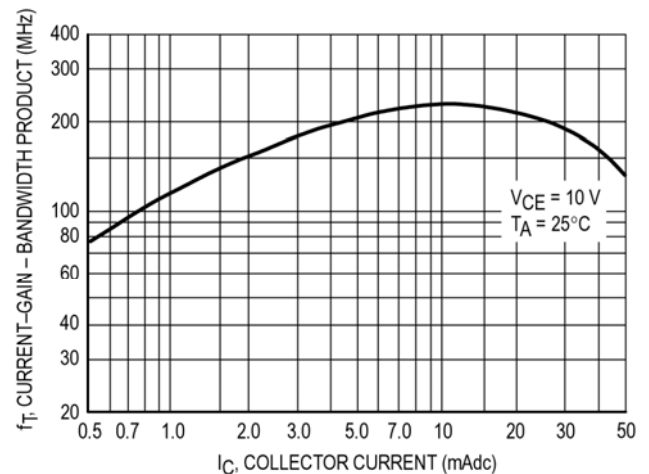


Base-Emitter Temperature Coefficient

BC547/BC548



Capacitances



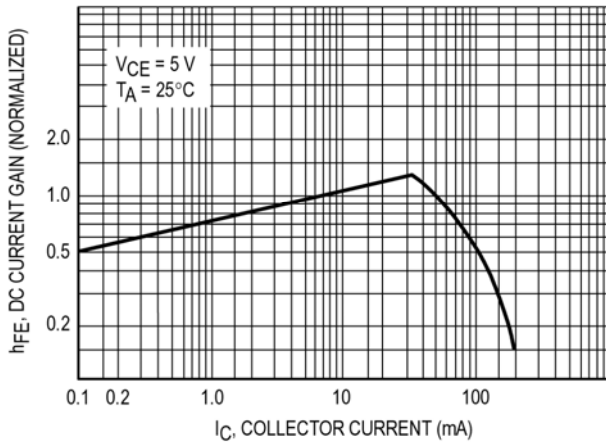
Current-Gain - Bandwidth Product

BC546/BC547/BC548(NPN)

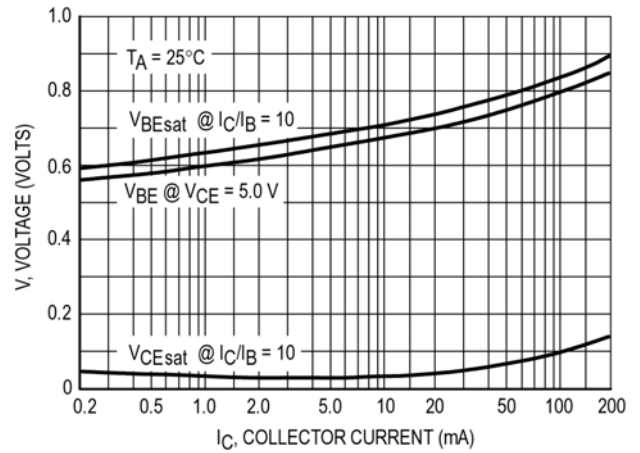
TO-92 Bipolar Transistors



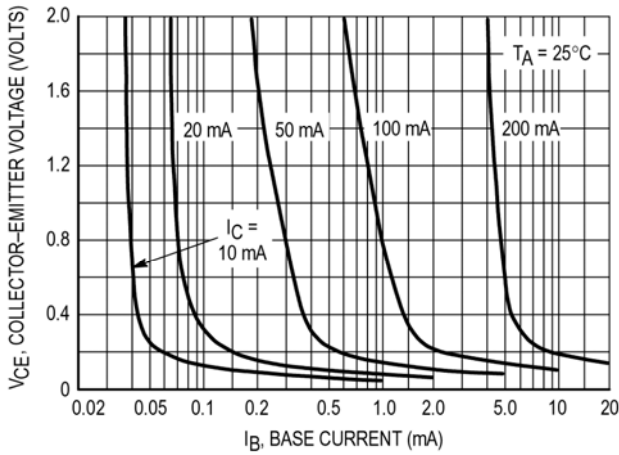
BC547/BC548



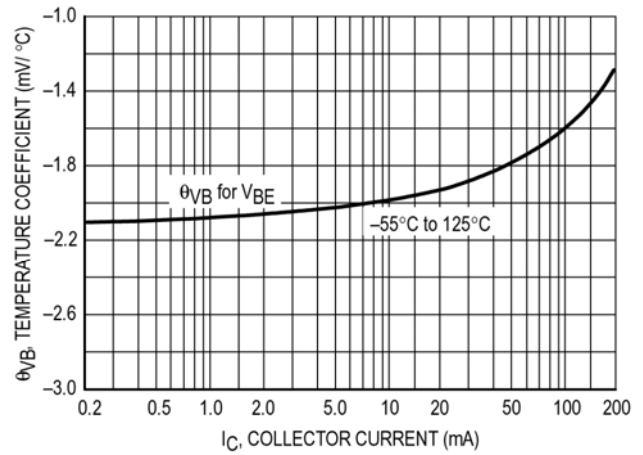
DC Current Gain



"On" Voltage

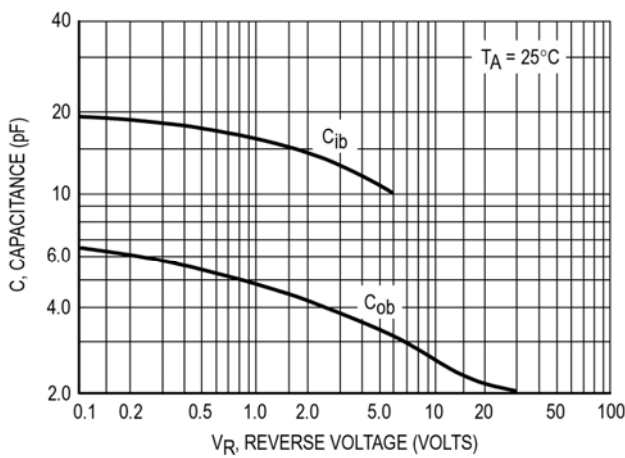


Collector Saturation Region

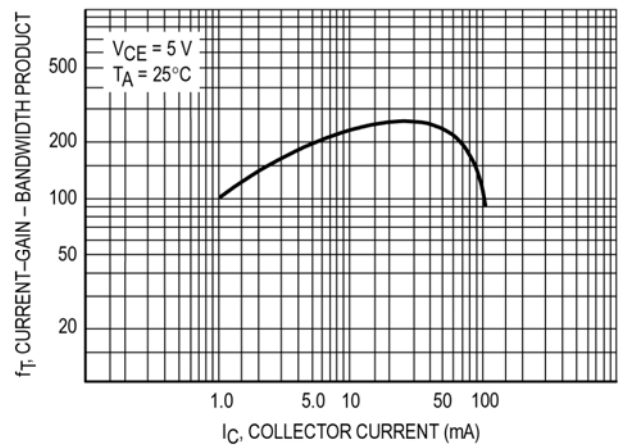


Base-Emitter Temperature Coefficient

BC546



Capacitance



Current-Gain - Bandwidth Product

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