

BC546/BC547/BC548(NPN)

TO-92 Bipolar Transistors



1. COLLECTOR
2. BASE
3. Emitter

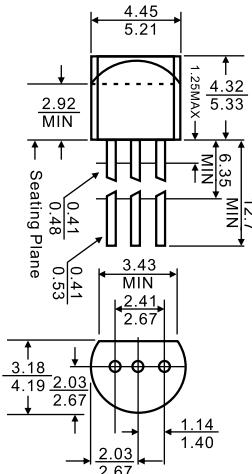
Features

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

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

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

TO-92



Dimensions in inches and (millimeters)

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

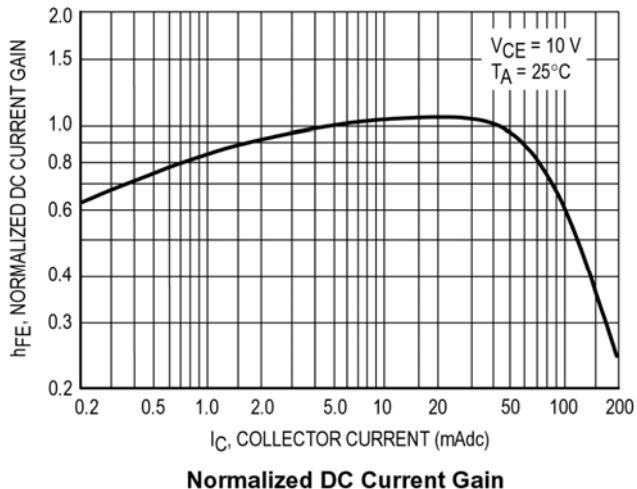
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage BC546 BC547 BC548	V _{CBO}	I _C = 100µA , I _E =0	80		V
			50		
			30		
Collector-emitter breakdown voltage BC546 BC547 BC548	V _{CEO}	I _C = 1mA , I _B =0	65		V
			45		
			30		
Emitter-base breakdown voltage	V _{EBO}	I _E = 10µA, I _C =0	6		V
Collector cut-off current BC546 BC547 BC548	I _{CBO}	V _{CB} = 70V, I _E =0 V _{CB} = 50 V, I _E =0 V _{CB} = 30V, I _E =0		0.1	µA
Collector cut-off current BC546 BC547 BC548	I _{CEO}	V _{CE} = 60 V, I _B =0 V _{CE} = 45 V, I _B =0 V _{CE} = 30 V, I _B =0		0.1	µA
Emitter cut-off current BC546 BC547 BC548	I _{EBO}	V _{EB} = 5V, 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} =5V, I _C = 2mA	110	800	
			110	800	
			110	800	
			110	220	
			200	450	
			420	800	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B = 5mA		0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 100mA, I _B =5mA		1.1	V
Transition frequency	f _T	V _{CE} = 5V, I _C = 10mA f = 100MHz	150		MHz

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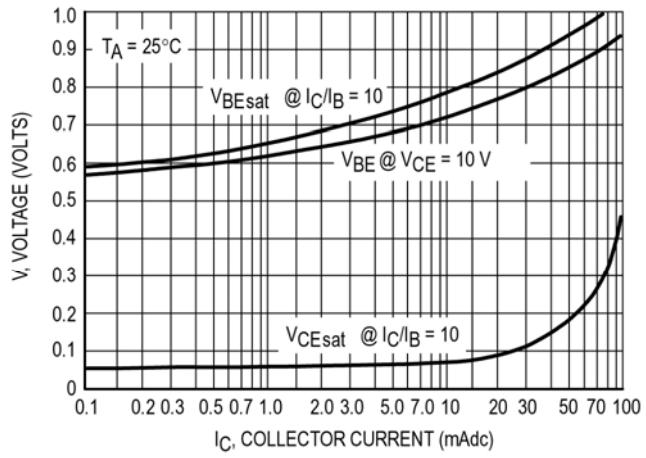
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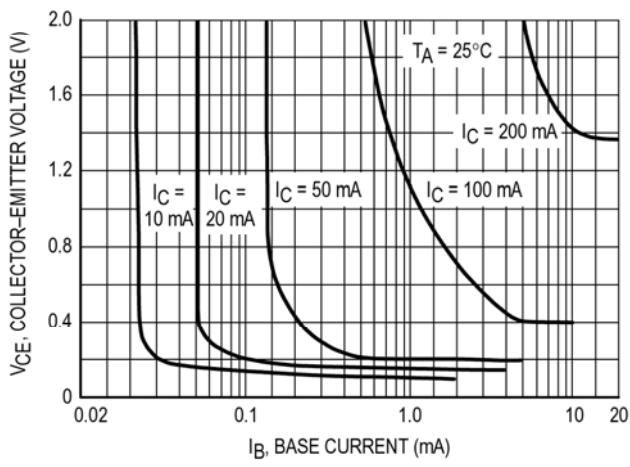
Typical Characteristics



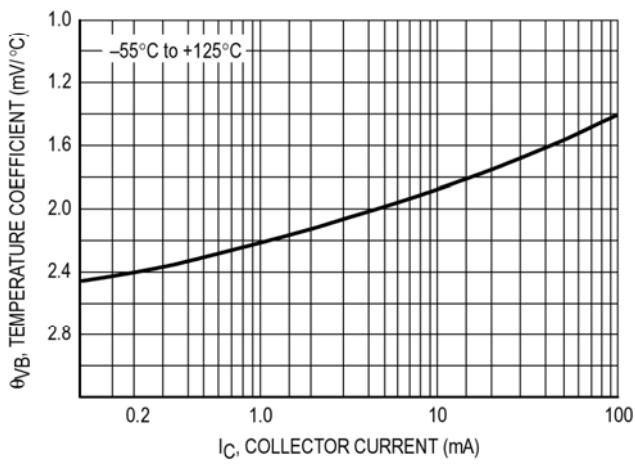
Normalized DC Current Gain



“Saturation” and “On” Voltages

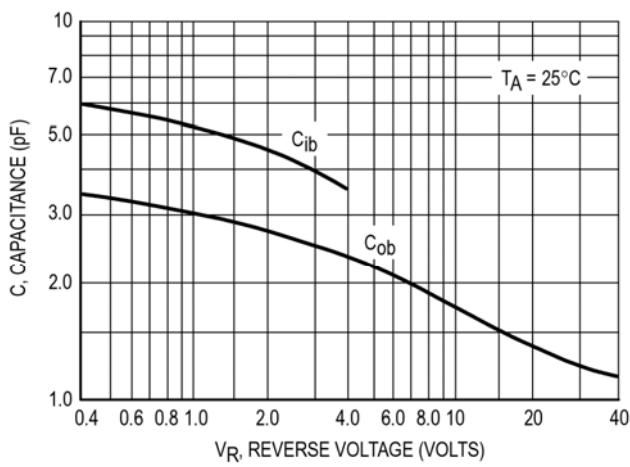


Collector Saturation Region

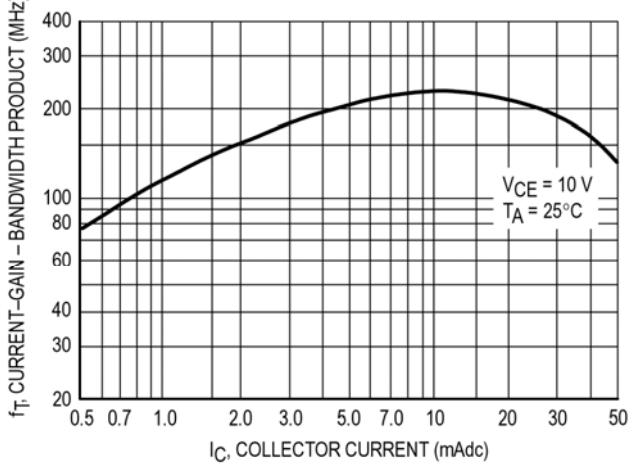


Base-Emitter Temperature Coefficient

BC547/BC548



Capacitances



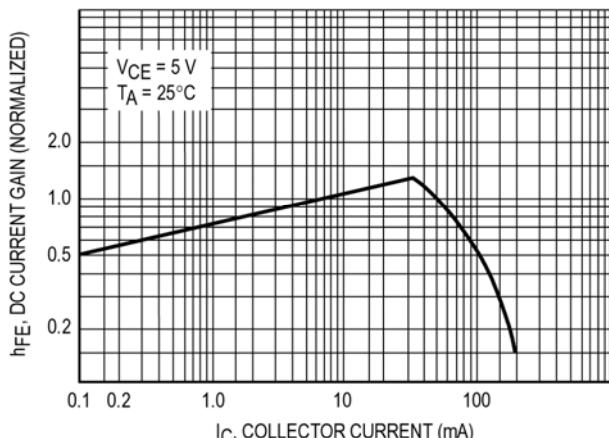
Current-Gain – Bandwidth Product

BC546/BC547/BC548(NPN)

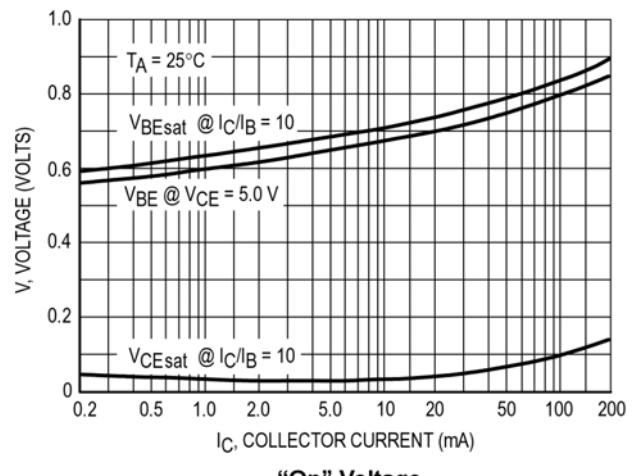
TO-92 Bipolar Transistors



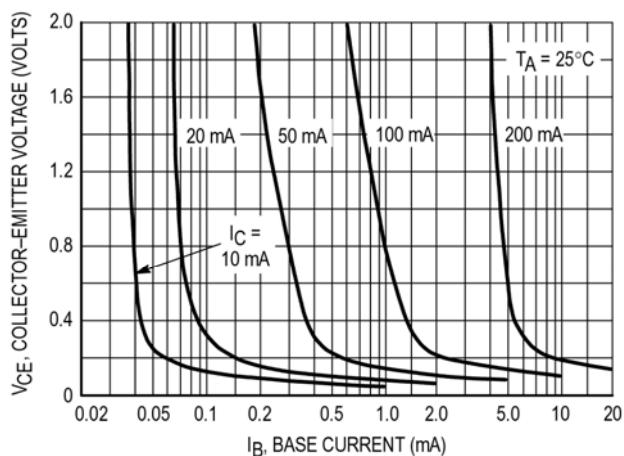
BC547/BC548



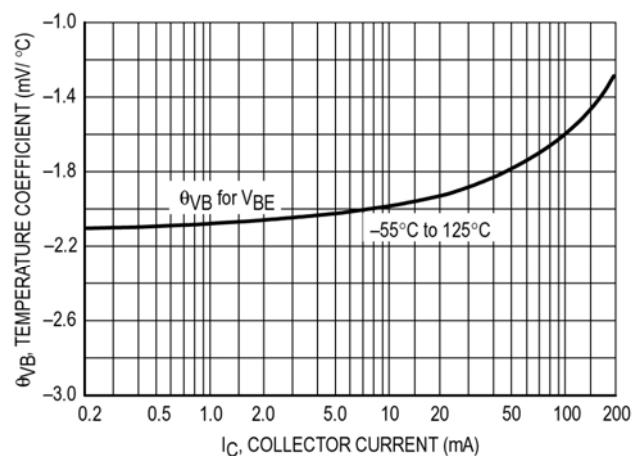
DC Current Gain



"On" Voltage

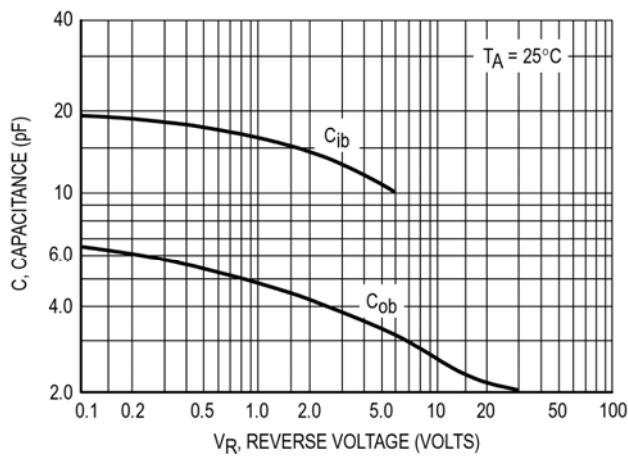


Collector Saturation Region

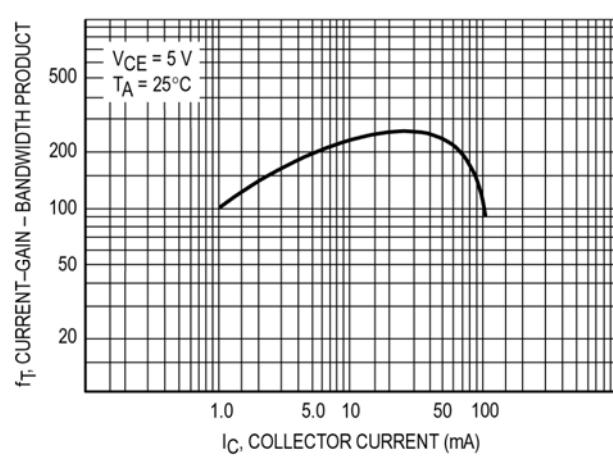


Base-Emitter Temperature Coefficient

BC546



Capacitance



Current-Gain – Bandwidth Product

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