

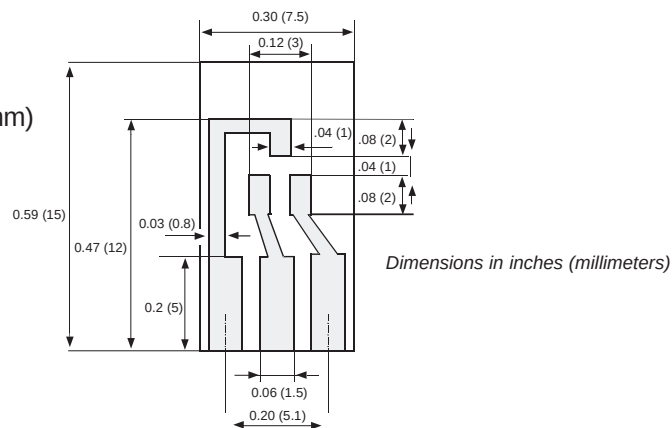
Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
DC Current Gain						
Current Gain Group -16	h _{FE}	-V _{CE} = 1V, -I _C = 100mA	100	—	250	—
-25			160	—	400	—
-40			250	—	600	—
		-V _{CE} = 1V, -I _C = 500mA	40	—	—	—
Collector Saturation Voltage	-V _{CEsat}	-I _C = 500mA, -I _B = 50mA	—	—	0.7	V
Base Saturation Voltage	V _{BEsat}	-I _C = 500mA, -I _B = 50mA	—	—	1.3	V
Base-Emitter Voltage	-V _{BEon}	-V _{CE} = 1V, -I _C = 500mA	—	—	1.2	V
Collector-Base Cutoff Current	-I _{CBO}	-V _{CB} = 20V -V _{CB} = 20V, T _J = 150°C	— —	— —	100 5	nA μA
Emitter-Base Cutoff Current	-I _{EBO}	-V _{EB} = 4 V	—	—	100	nA
Gain-Bandwidth Product	f _T	-V _{CE} = 5V, -I _C = 10mA f = 50 MHz	—	100	—	MHz
Collector-Base Capacitance	C _{CBO}	-V _{CB} = 10V, f = 1 MHz	—	12	—	pF

Note: (1) Device on fiberglass substrate, see layout.

Layout for R_{θJA} test

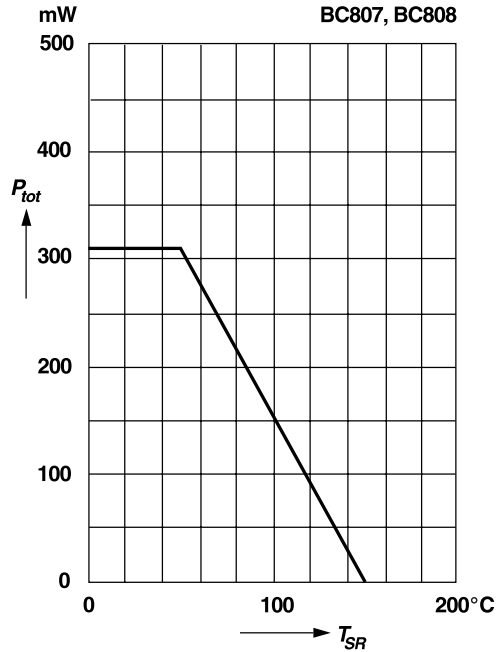
Thickness: Fiberglass 0.059 in. (1.5 mm)
Copper leads 0.012 in. (0.3 mm)



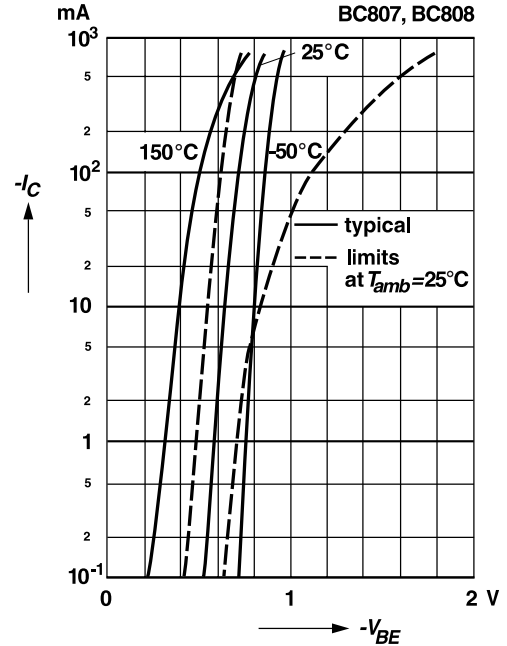
Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Admissible power dissipation versus temperature of substrate backside

Device on fiberglass substrate, see layout

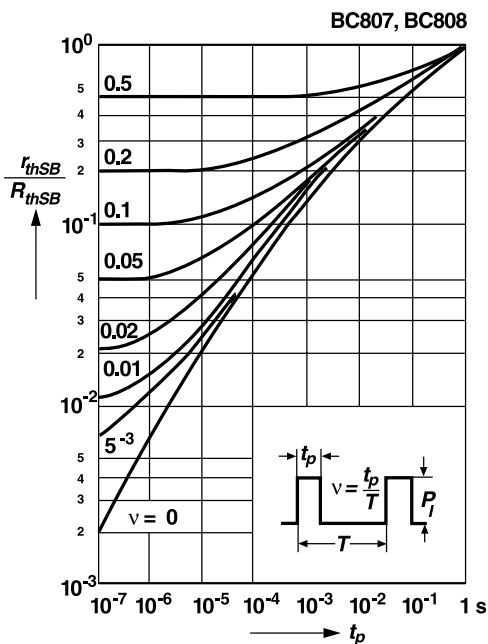


Collector current versus base-emitter voltage

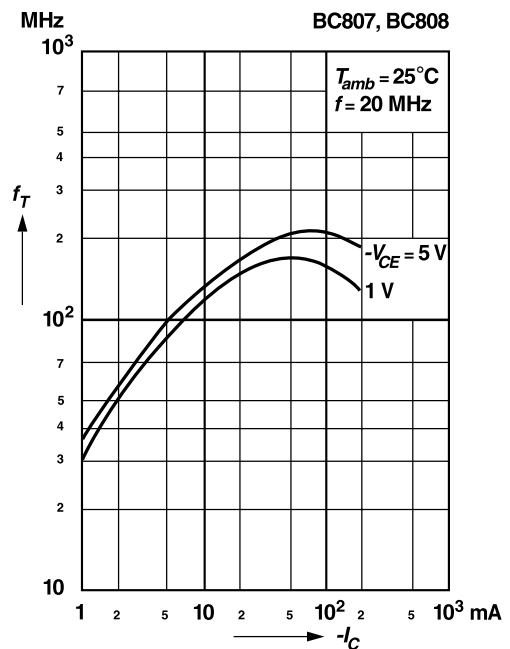


Pulse thermal resistance versus pulse duration (normalized)

Device on fiberglass substrate, see layout



Gain-bandwidth product versus collector current



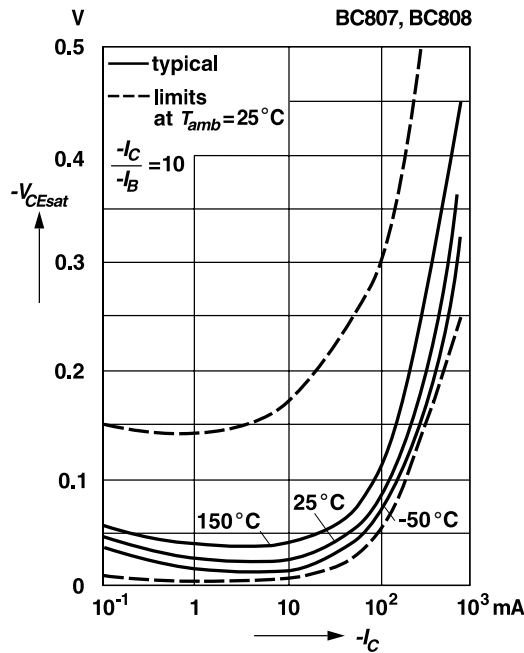
BC807, BC808

Vishay Semiconductors
formerly General Semiconductor

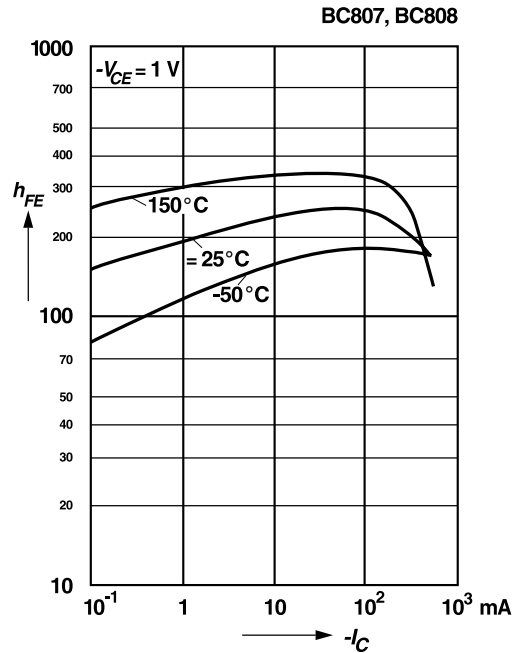


Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

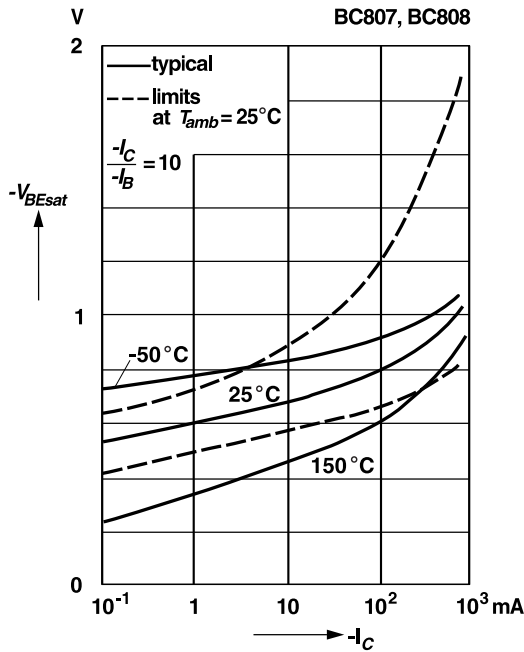
Collector saturation voltage
versus collector current



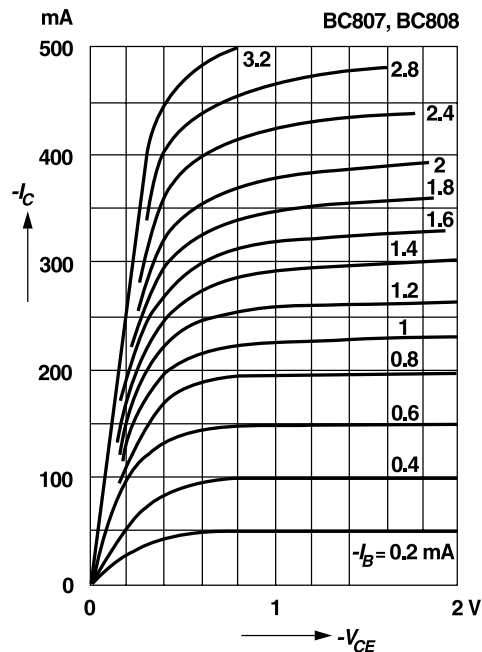
DC current gain
versus collector current



Base saturation voltage
versus collector current



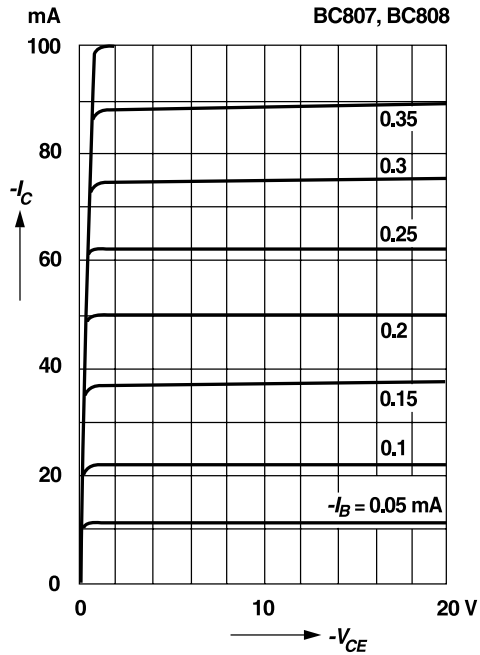
Common emitter
collector characteristics





Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Common emitter
collector characteristics



Common emitter
collector characteristics

