



1. BASE
2. EMITTER
3. COLLECTOR

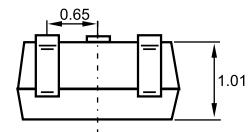
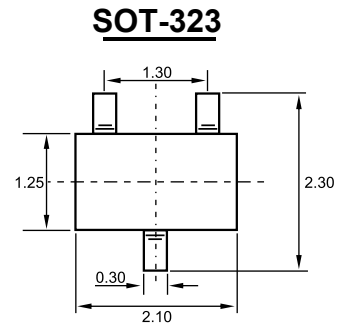
Features

- ✧ Ideally suited for automatic insertion
- ✧ epitaxial planar die construction
- ✧ complementary to BC817W

MARKING: 16W:5A; 25W:5B; 40W:5C

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.5	A
P _C	Collector Power Dissipation	0.2	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



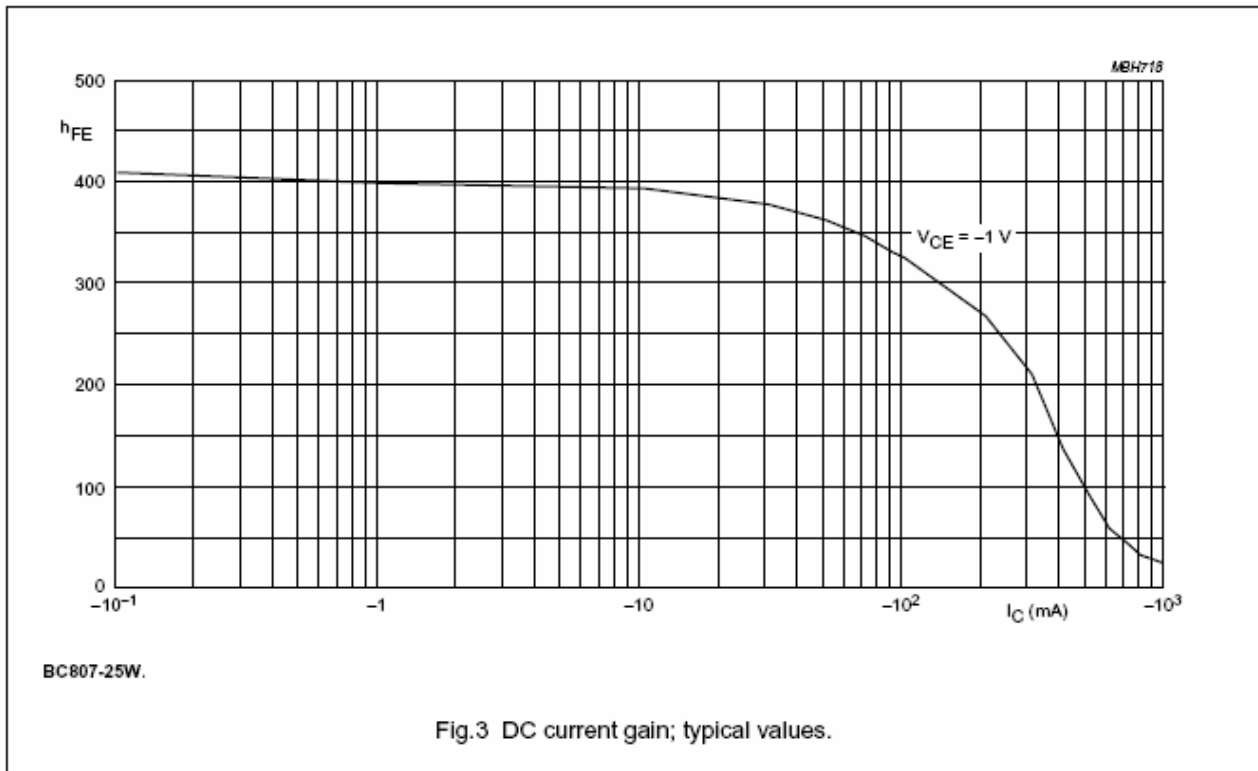
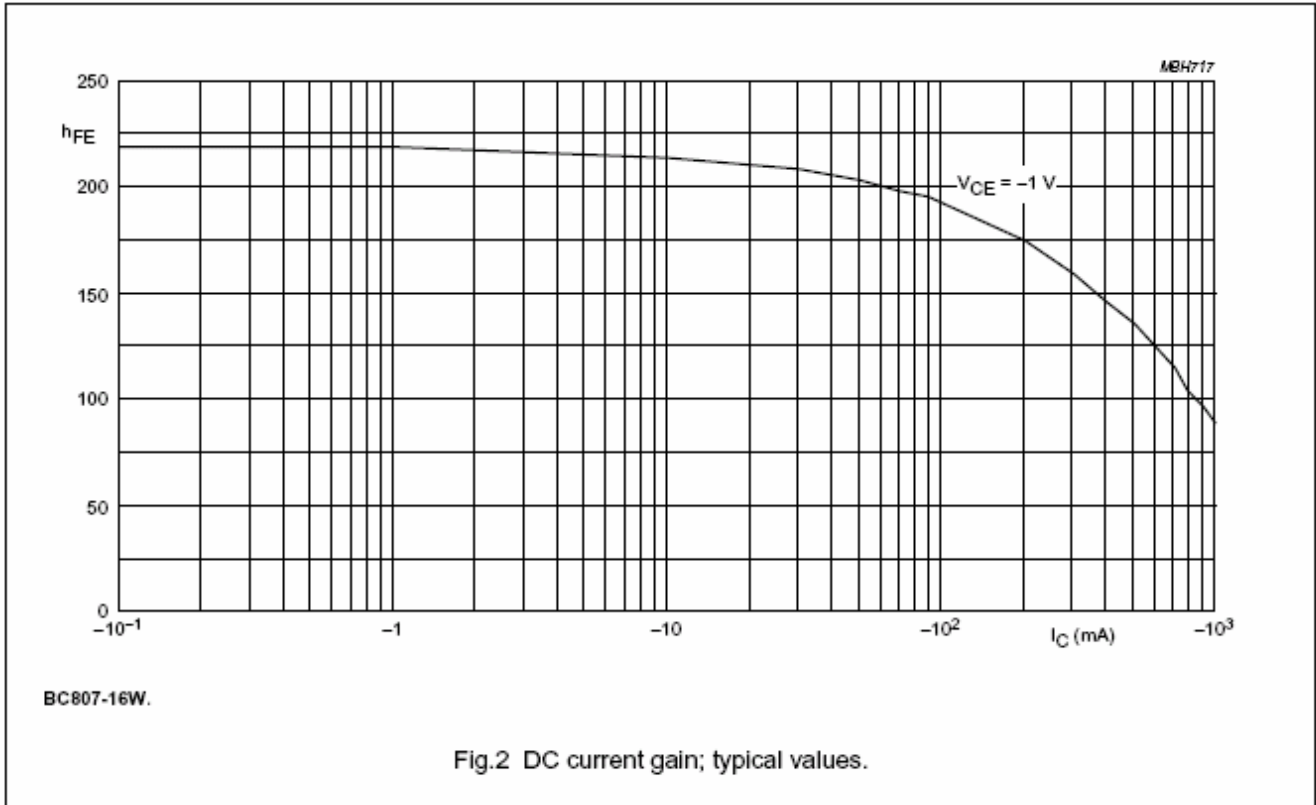
Dimensions in inches and (millimeters)

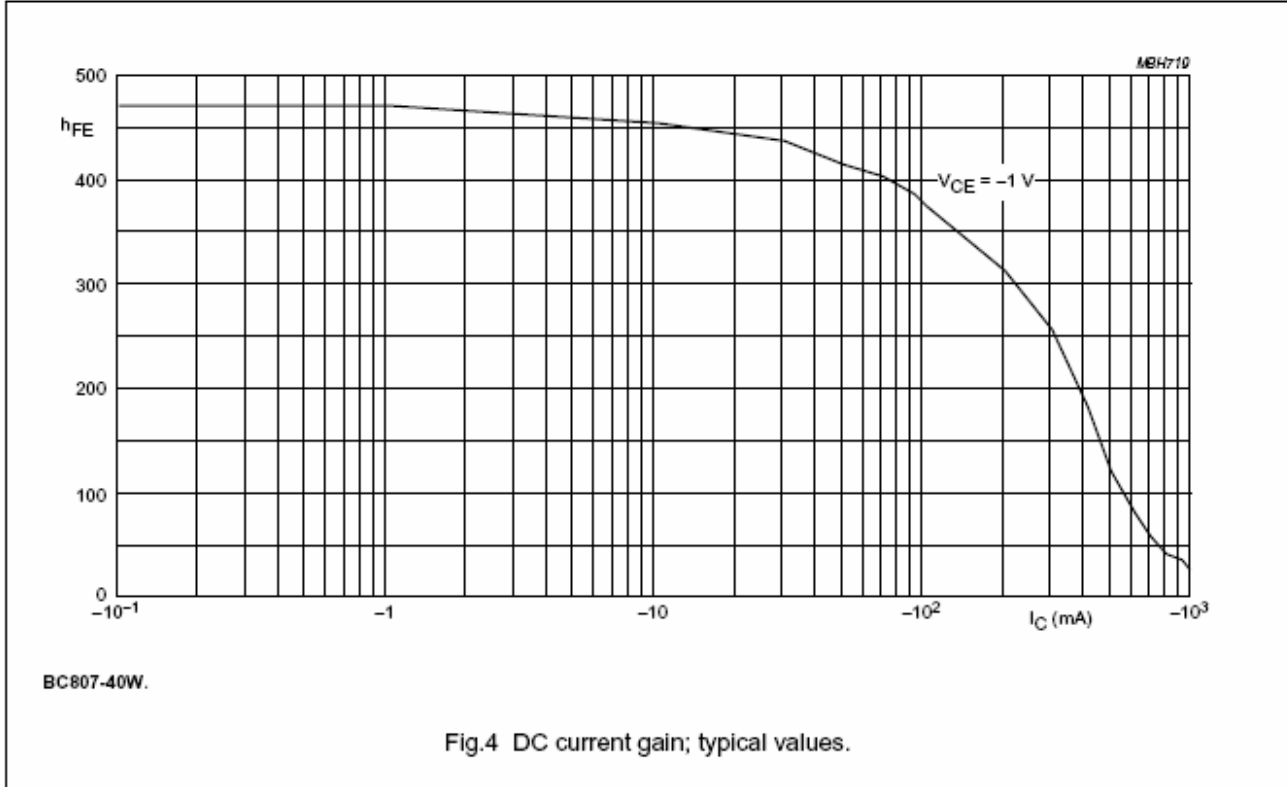
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{CBO}	I _C = -10μA, I _E =0	-50		V
Collector-emitter breakdown voltage	V _{CEO}	I _C = -10mA, I _B =0	-45		V
Emitter-base breakdown voltage	V _{EBO}	I _E = -1μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -20 V, I _E =0		-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -20 V, I _B =0		-0.2	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V, I _C =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} = -1V, I _C = -100mA	100	250	
			160	400	
	h _{FE(2)}	V _{CE} = -1V, I _C = -500mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B = -50 mA		-0.7	V
Base-emitter voltage	V _{BE(on)}	V _{CE} = -1V, I _C = -500mA		-1.2	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -10mA f=100MHz	80		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,f=1MHz		10	pF



Typical Characteristics





Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT -323	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220