



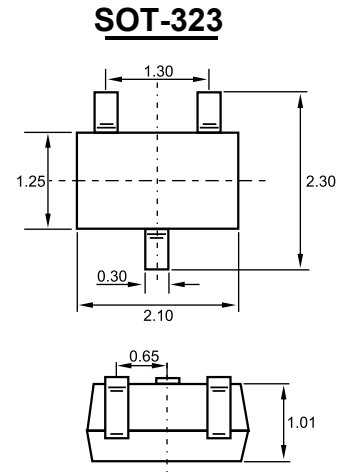
- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Features

- ✧ Ideally suited for automatic insertion
- ✧ For Switching and AF Amplifier Applications

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	BC856W	-80	V
	BC857W	-50	
	BC858W	-30	
V _{CEO}	Collector-Emitter Voltage		
	BC856W	-65	V
	BC857W	-45	
	BC858W	-30	
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current –Continuous	-0.1	A
P _C *	Collector Power Dissipation	150	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65-150	°C



Dimensions in inches and (millimeters)

DEVICE MARKING

BC856AW=3A; BC856BW=3B;
BC857AW=3E;BC857BW=3F;BC857CW=3G;
BC858AW=3J; BC858BW=3K; BC858CW=3L

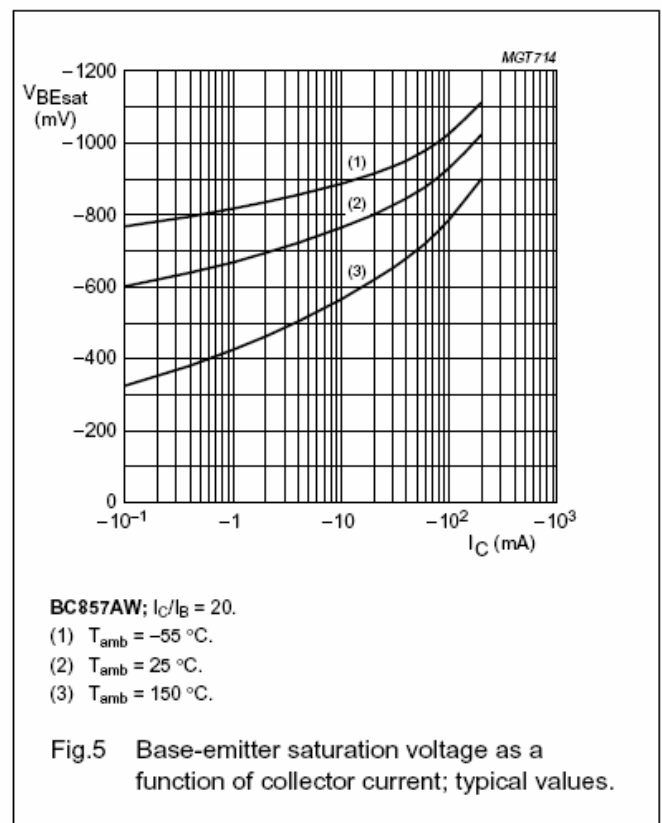
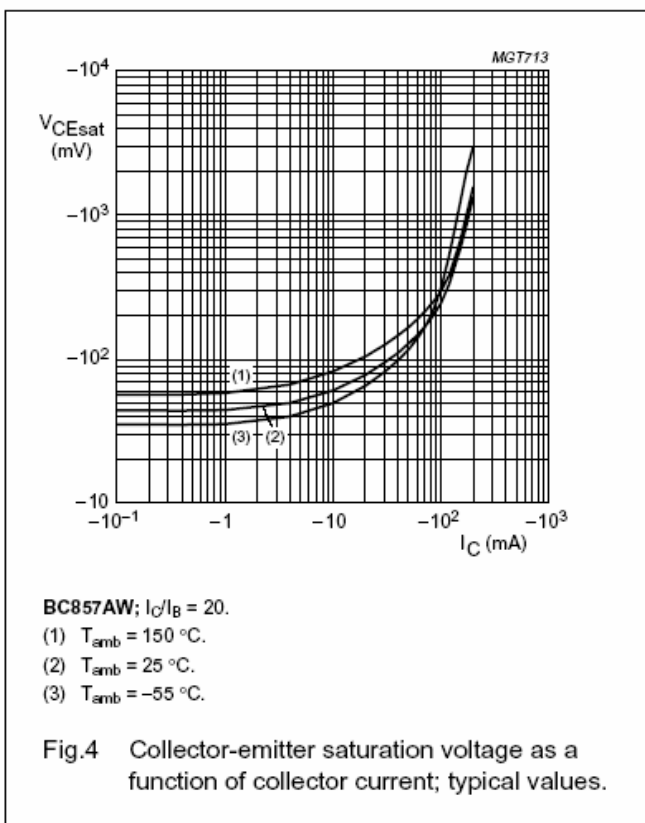
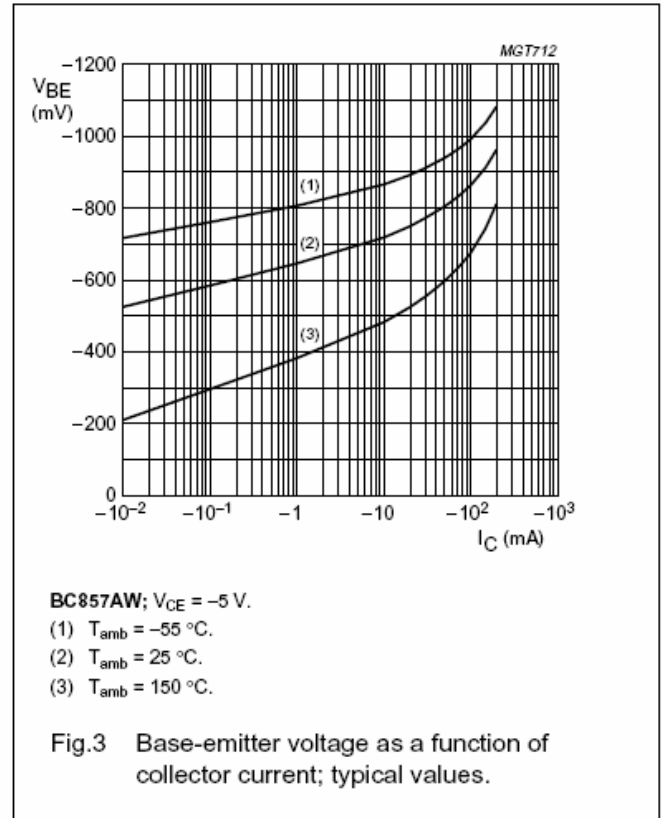
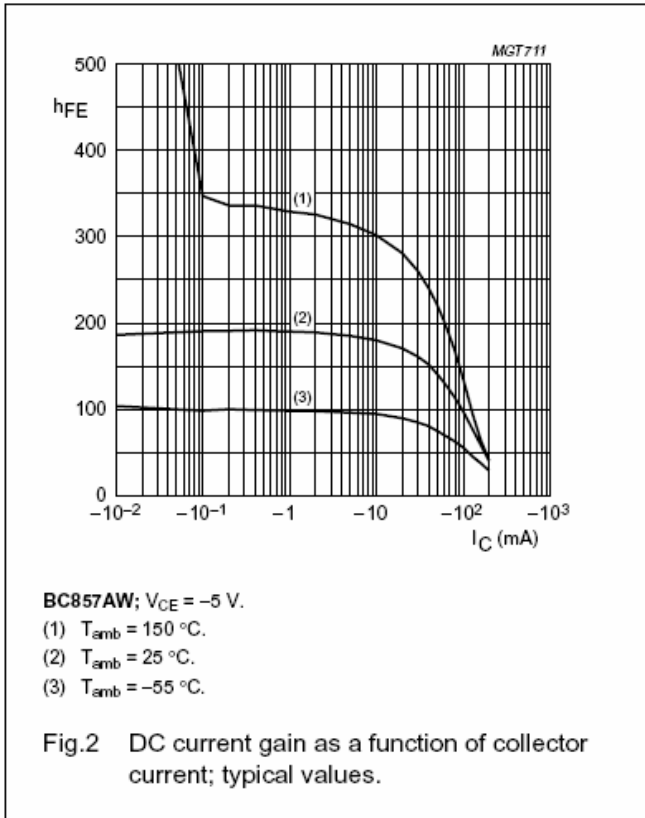


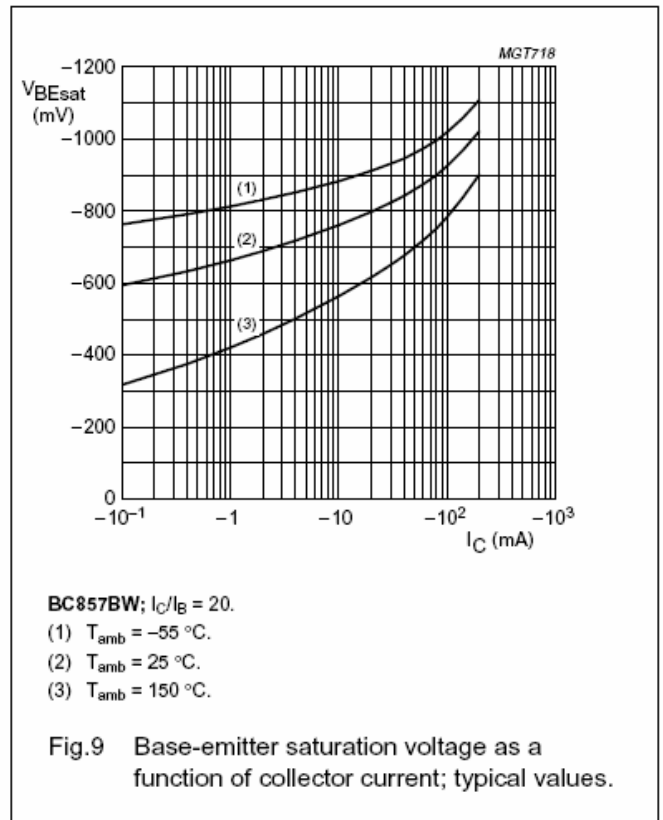
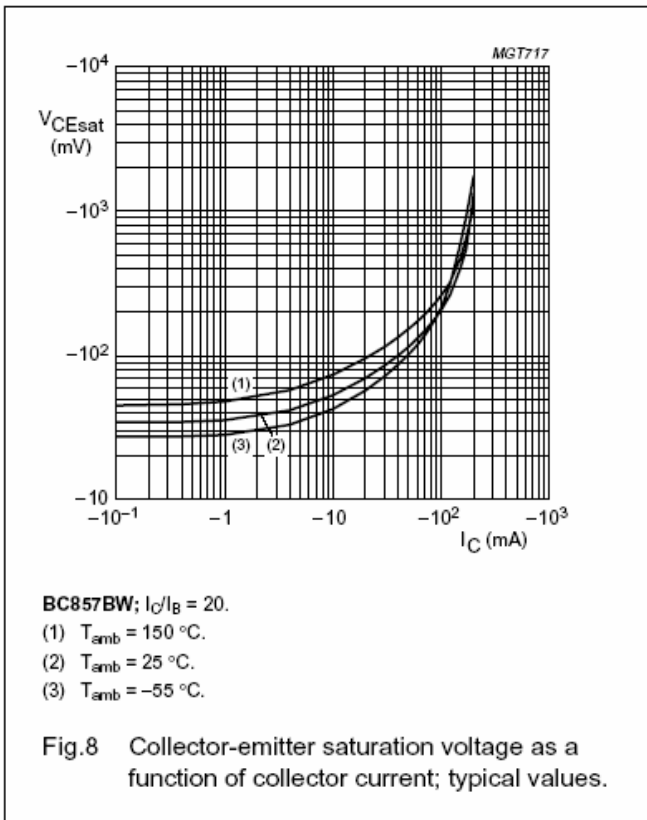
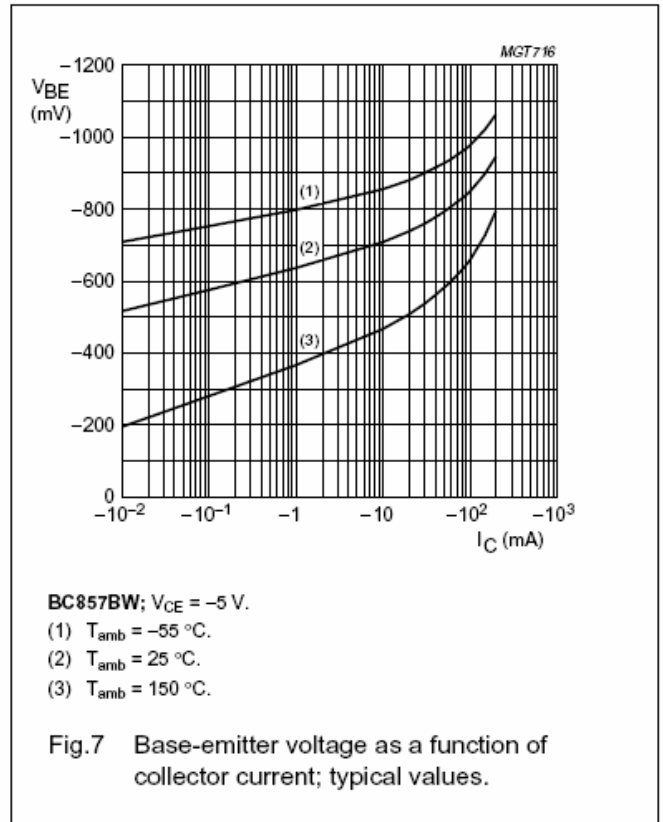
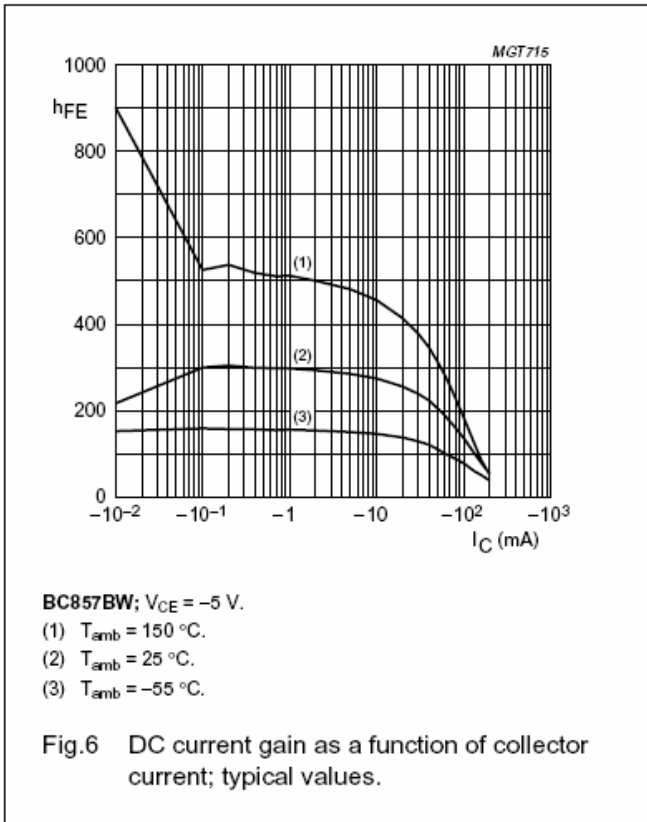
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

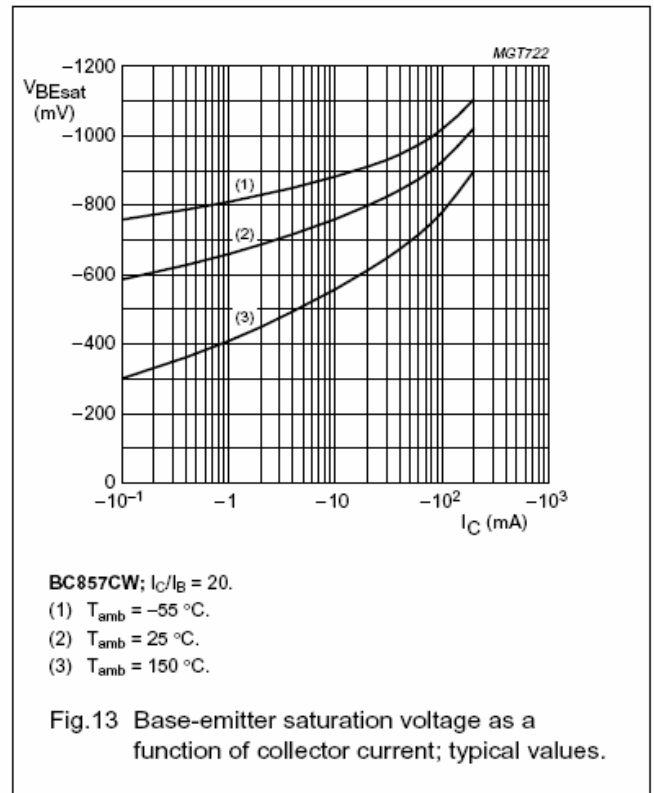
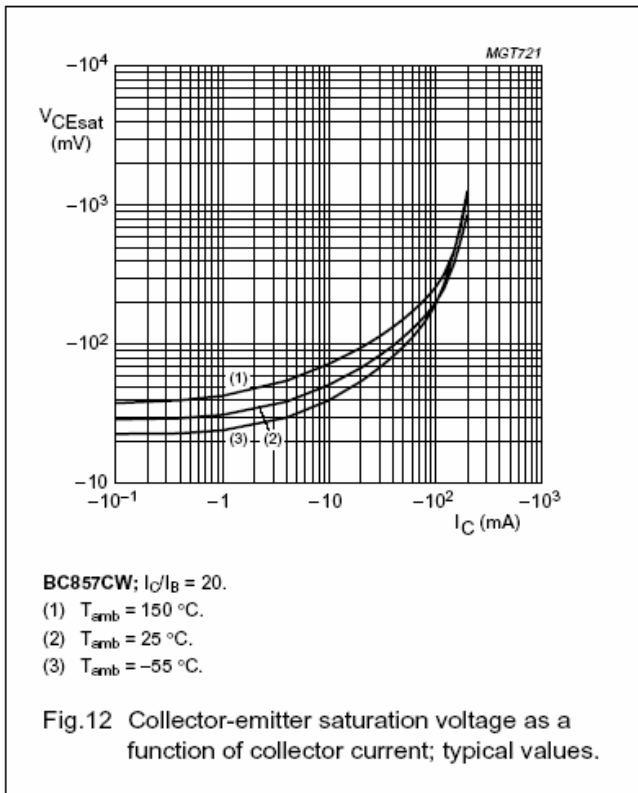
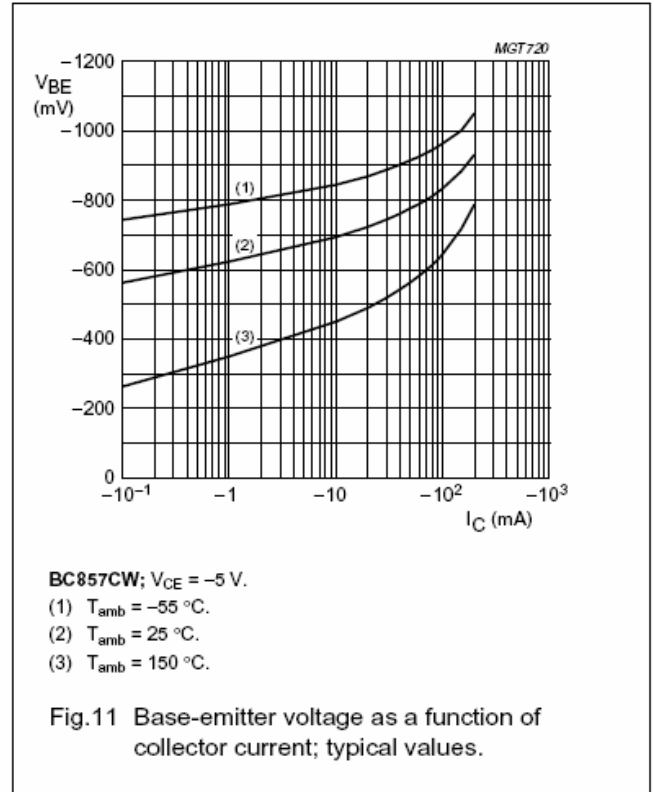
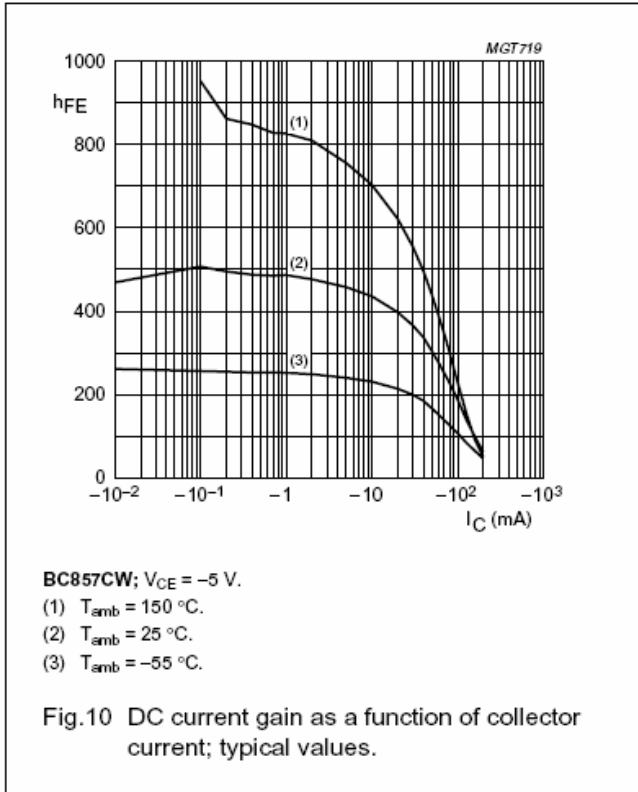
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BC856W BC857W BC858W	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-80 -50 -30	V
Collector-emitter breakdown voltage	BC856W BC857W BC858W	V_{CEO}	$I_C = -10mA, I_B = 0$	-65 -45 -30	V
Emitter-base breakdown voltage		V_{EBO}	$I_E = -1\mu A, I_C = 0$	-5	V
Collector cut-off current		I_{CBO}	$V_{CB} = -30V, I_E = 0$		-15 nA
DC current gain	BC856AW, 857AW, 858AW BC856BW, 857BW, 858BW BC857CW, BC858CW	h_{FE}	$V_{CE} = -5V, I_C = -2mA$	125 220 420	250 475 800
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C = -100mA, I_B = -5mA$		-0.65 V
Base-emitter saturation voltage		$V_{BE(sat)}$	$I_C = -100mA, I_B = -5mA$		-1.1 V
Transition frequency		f_T	$V_{CE} = -5V, I_C = -10mA$ $f = 100MHz$	100	MHz
Collector capacitance		C_{ob}	$V_{CB} = -10V, f = 1MHz$		4.5 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