

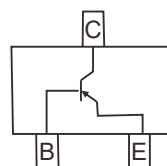
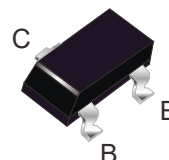
FEATURES

- Epoxy meets UL-94 V-0 flammability rating
- Complementary to BC846W,BC847W,BC848W
- Power Dissipation of 150mW
- Ideally suited for automatic insertion
- For switching and AF amplifier applications

MECHANICAL DATA

- Case:SOT-323
- Terminals:Plated solderable per MIL-STD-750,method 2026
- Mounting Position: Any
- Marking:BC856AW:3A, BC856BW:3B
BC857AW:3E, BC857BW:3F, BC857CW:3G
BC858AW:3J, BC858BW:3K, BC858CW:3L

SOT-323



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

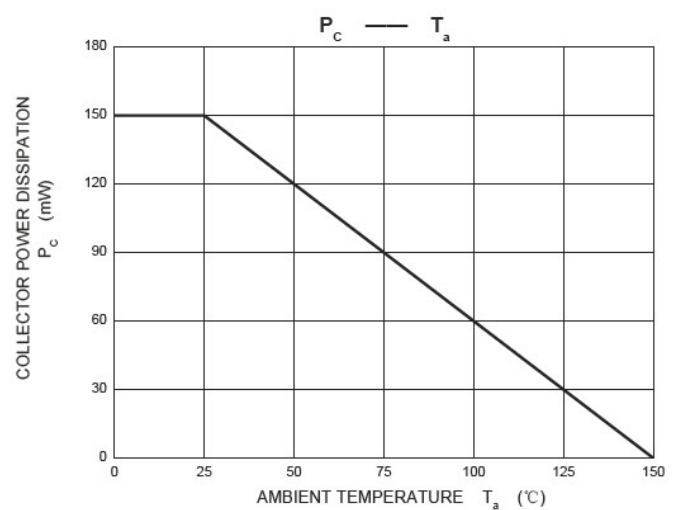
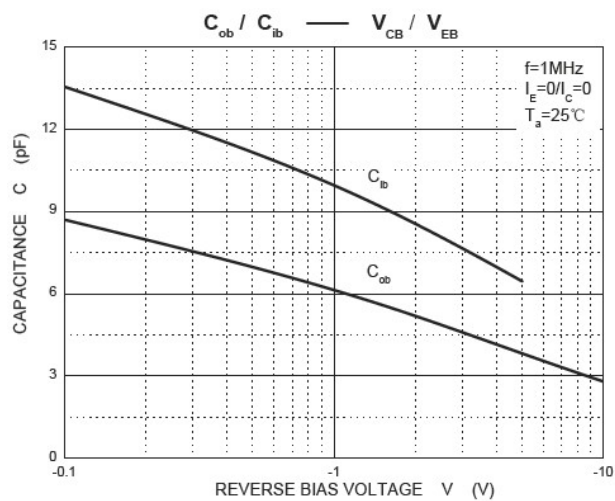
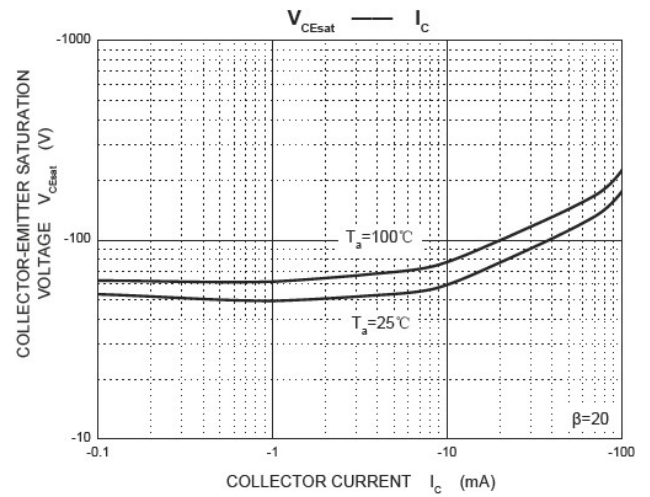
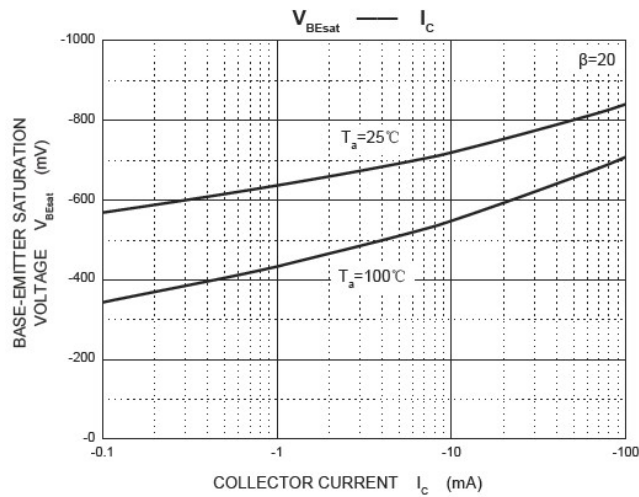
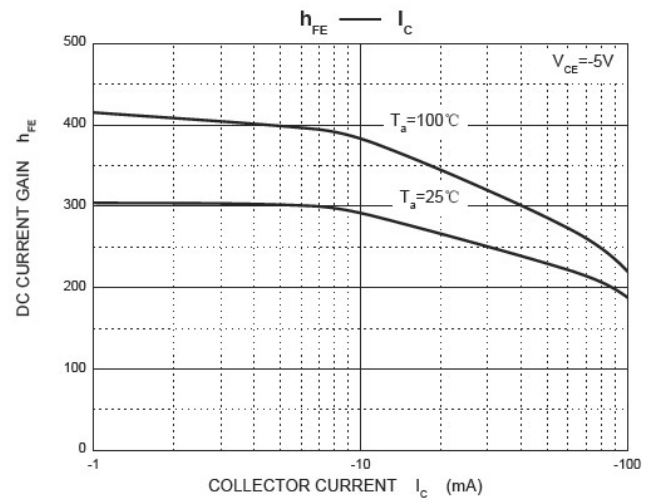
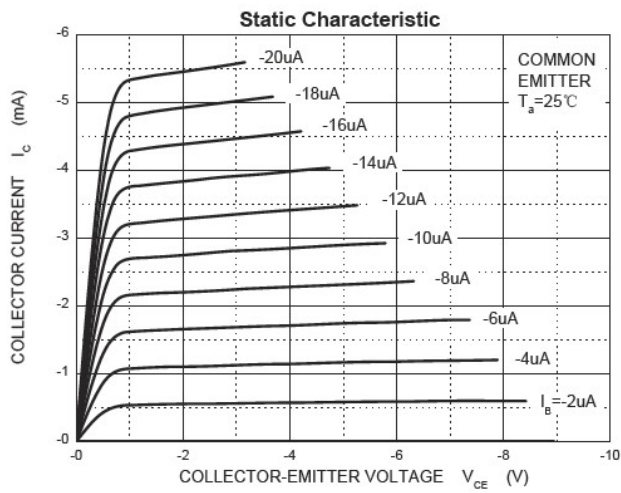
Item	Symbol	Unit	Value	
Collector-Emitter Voltage	V_{CEO}	V	BC856W BC857W BC858W	-65 -45 -30
Collector-Base Voltage	V_{CBO}	V	BC856W BC857W BC858W	-80 -50 -30
Emitter-Base Voltage	V_{EBO}	V	-5.0	
Collector Current, Continuous	I_C	mA	-100	
Power Dissipation	P_D	mW	150	
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150	
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150	
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	833	

BC856W, BC857W, BC858W

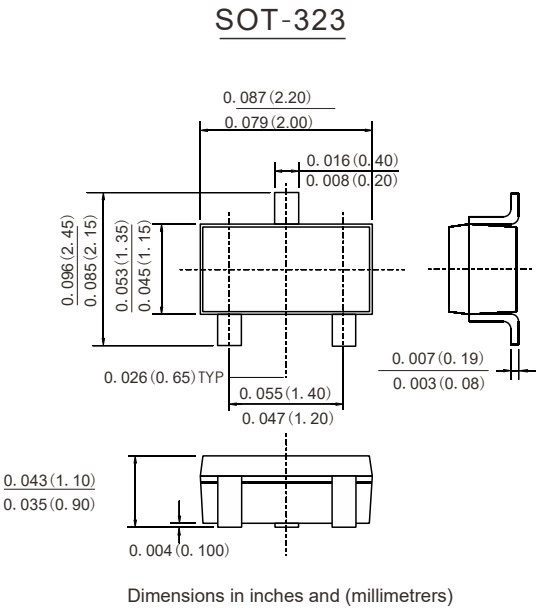
ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	$I_C = -10\text{mA}, I_B = 0$ BC856W BC857W BC858W	-65 -45 -30	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C = -10\mu\text{A}, I_E = 0$ BC856W BC857W BC858W	-80 -50 -30	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E = -1\mu\text{A}, I_C = 0$	-5.0	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB} = -30\text{V}, I_E = 0$	---	-15
DC Current Gain	h_{FE}		$I_C = -2\text{mA}, V_{CE} = -5\text{V}$ BC856AW, BC857AW, BC858AW BC856BW, BC857BW, BC858BW BC857CW, BC858CW	125 220 420	250 475 800
Collector-Emitter Saturation Voltage	$V_{CE(\text{set})}$	V	$I_C = -100\text{mA}, I_B = -5\text{mA}$	---	-0.65
Base-Emitter Saturation Voltage	$V_{BE(\text{set})}$	V	$I_C = -100\text{mA}, I_B = -5\text{mA}$	---	-1.1
Output Capacitance	C_{ob}	pF	$V_{CB} = -10\text{V}, f = 1.0\text{MHz}, I_E = 0$	---	4.5
Transition frequency	f_T	MHz	$I_C = -10\text{mA}, V_{CE} = -5\text{V}$ $f = 100\text{MHz}$	100	---

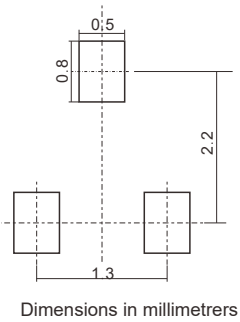
Characteristics(Typical)



Outline Dimensions



Suggested pad layout



Friendship Reminder

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