

Features

- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

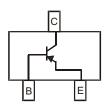
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance:833°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit	
Collector-Base Voltage				
BC856AW,BC856BW	V_{CBO}	-80	V	
BC857AW,BC857BW,BC857CW	v CBO	-50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
BC858AW,BC858BW,BC858CW		-30		
Collector-Emitter Voltage				
BC856AW,BC856BW	V	-65	V	
BC857AW,BC857BW,BC857CW	V_{CEO}	-45	V	
BC858AW,BC858BW,BC858CW		-30		
Emitter-Base Voltage	V _{EBO}	-5	V	
Collector Current	I _C	-100	mA	
Power Dissipation	P_{D}	200	mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

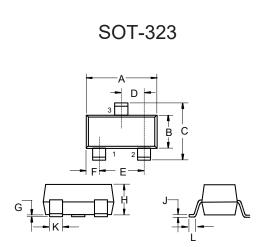


Marking:

BC856AW:3A; BC856BW:3B

BC857AW:3E; BC857BW:3F; BC857CW:3G BC858AW:3J; BC858BW:3K; BC858CW:3L

PNP General Purpose Transistors



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.0)26	0.	65	TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout 0.70 (mm) 0.90 1.90 1.90



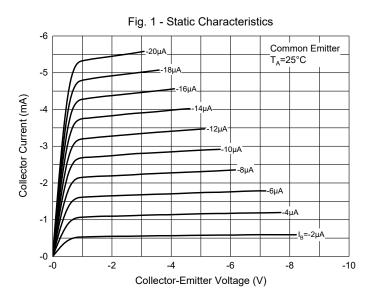
Electrical Characteristics @ 25°C Unless Otherwise Specified

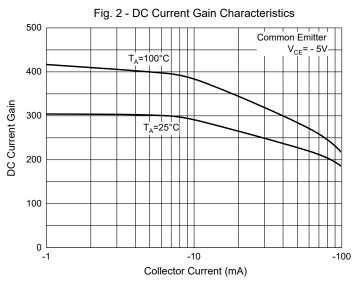
Parameter	Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage							
BC856AW,BC856BW	\/	-80			V	 I _C =-10μΑ, I _E =0	
BC857AW,BC857BW,BC857CW	$V_{(BR)CBO}$	-50			V	ι _C τομΑ, ι _E υ	
BC858AW,BC858BW,BC858CW		-30					
Collector-Emitter Breakdown Voltage							
BC856AW,BC856BW	\/	-65			V	- 10mA -0	
BC857AW,BC857BW,BC857CW	$V_{(BR)CEO}$	-45			V	I _C =-10mA, I _B =0	
BC858AW,BC858BW,BC858CW		-30					
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-1μA, I _C =0	
Collector-Base Cutoff Current	I _{CBO}			-15	nA	V _{CB} =-30V, I _E =0	
DC Current Gain							
BC856AW,BC857AW,BC858AW		125		250		V _{CE} =-5V, I _C =-2mA	
BC856BW,BC857BW,BC858BW	h _{FE}	220		475			
BC857CW,BC858CW		420		800			
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.65	V	I _C =-100mA, I _B =-5mA	
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.10	V	I _C =-100mA, I _B =-5mA	
Transition Frequency	f_T	100			MHz	V _{CE} =-5V, I _C =-10mA, f=100MHz	
Collector-Base Capacitance	C_CBO			4.5	pF	V _{CB} =-10V, f=1MHz	
Nais - Figure			40	40	V _{CE} =-5V, I _C =-200μA		
Noise Figure	NF			10	dB	R _S =2KΩ, f=1KHz	

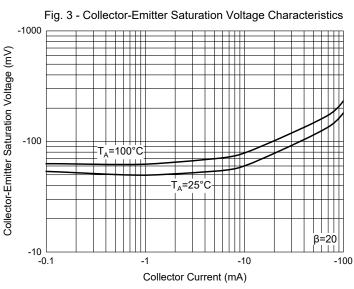
Rev.3-4-07142021 2/4 MCCSEMI.COM

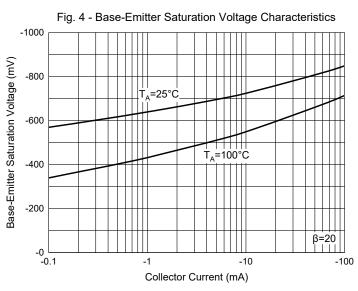


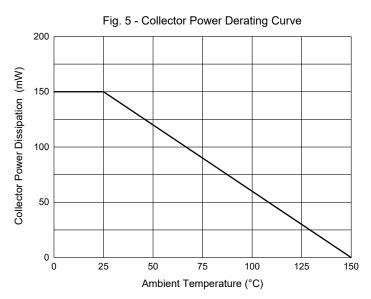
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Rev.3-4-07142021 4/4 MCCSEMI.COM