



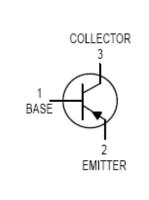
PNP General Purpose Transistor

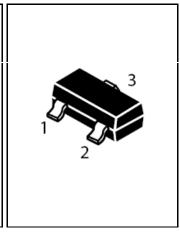
FEATURES

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

MECHANICAL DATA

- Case: SOT-323 Plastic
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Lead Free in RoHS 2002/95/EC Compliant





Maximum Ratings @ $T_A = 25^{\circ}C$

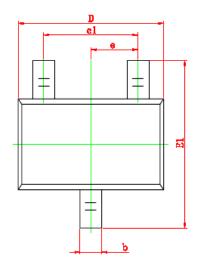
Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-30	V
Collector-Emitter Voltage	V _{CEO}	-30	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _C	-100	mA
Collector Power Dissipation	P _C	150	mW
Junction Temperature	T _J	150	$^{\circ}\!\mathbb{C}$
Storage Temperature Range	T _{STG}	-65~+150	°C

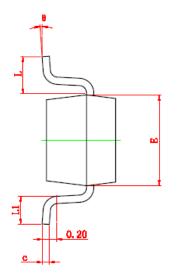
Electrical Characteristics @ T_A = 25°C unless otherwise specified

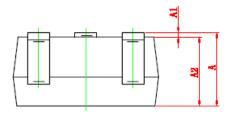
:-10μA,I _E =0 :-10mA,I _B =0 :-1μA,I _C =0		V _{CBO}	-30 -30		V
		V _{CEO}	-30		
-1μA,I _C =0					V
	$I_E = -1\mu A, I_C = 0$		-5		V
_B =-30V,I _E =0		I _{CBO}		-15	nA
_E =-5V,I _C =-2mA	AW BW CW	h _{FE}	125 220 420	250 475 800	
I _C =-100mA,I _B =-5mA		V _{CE} (sat)		-0.65	V
I _C =-100mA,I _B =-5mA		V _{BE} (sat)		-1.1	V
V _{CE} =-5V,I _C =-10mA, f=100MHz		f _T	100		MHz
B =-10V,f=1MHz	·	$C{\sf ob}$		4.5	pF
E:-	=-5V,I _C =-2mA 100mA,I _B =-5mA 100mA,I _B =-5mA =-5V,I _C =-10mA,	AW =-5V, I_C =-2mA BW CW CW AW AW AW AW AW AW AW A			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

REV. 2, Jun - 2012, KSPR10

SOT-323 Outline Dimension





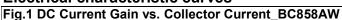


Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

Device Marking:

Device P/N	Classification of h _{FE}	Marking code
BC858AW	125-250	3J
BC858BW	220-475	3K
BC858CW	420-800	3L

Electrical characteristic curves



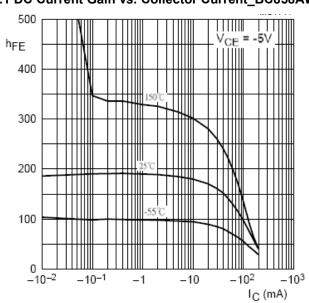


Fig.2 Grounded Emitter Propogation_BC858AW

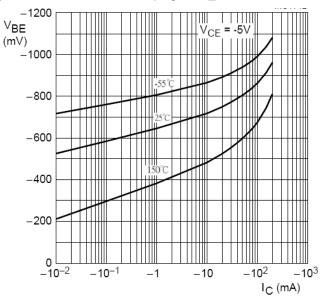


Fig.3 Collector Emitter Saturation Voltage vs. Collector Current_BC858AW

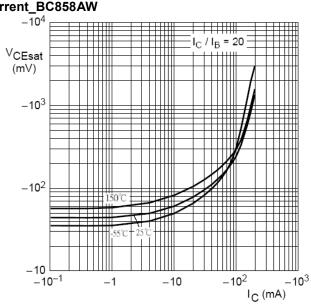


Fig.4 Base Emitter Saturation Voltage vs. Collector Current_BC858AW

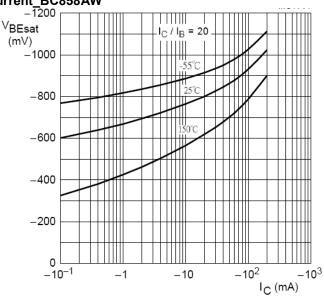


Fig.5 DC Current Gain vs. Collector Current_BC858BW

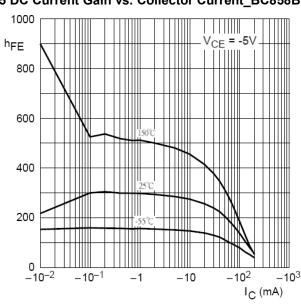


Fig.6 Grounded Emitter Propogation_BC858BW

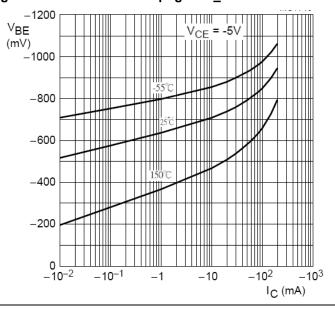


Fig.7 Collector Emitter Saturation Voltage vs. Collector Current_BC858BW

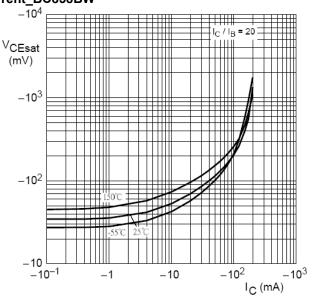


Fig.8 Base Emitter Saturation Voltage vs. Collector

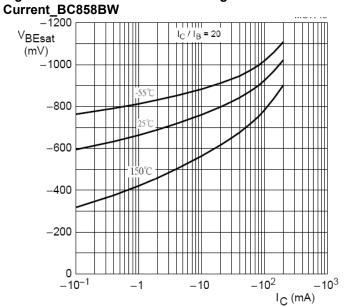


Fig.9 DC Current Gain vs. Collector Current_BC858CW

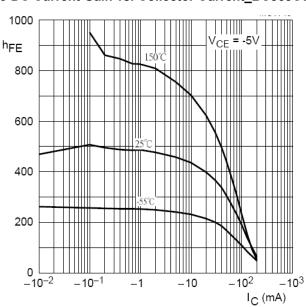
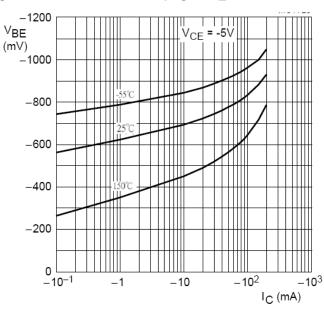


Fig.10 Grounded Emitter Propogation_BC858CW



Current_BC858CW

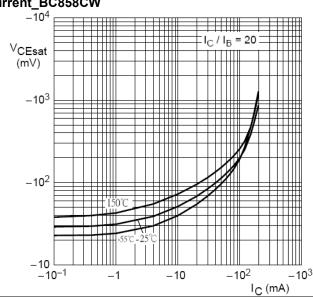
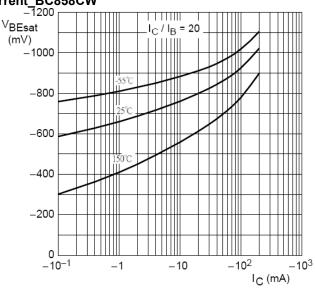


Fig.11 Collector Emitter Saturation Voltage vs. Collector Fig.12 Base Emitter Saturation Voltage vs. Collector Current_BC858CW





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