

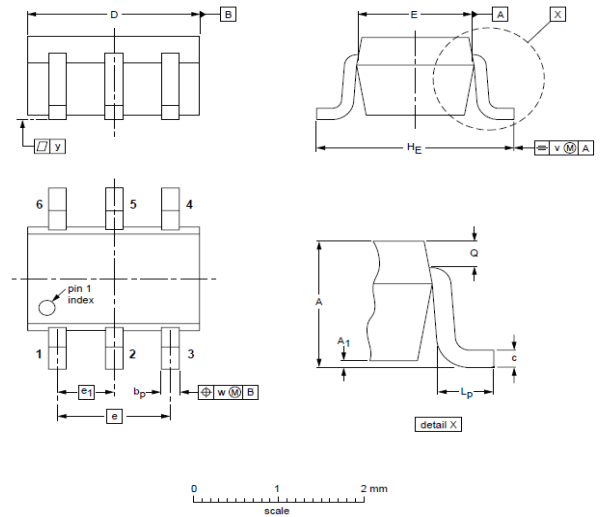
PNP Bipolar Transistor

Primary characteristics			
Symbol	Parameter	Value	Unit
I_c	Continuous collector current	100	mA
V_{CBO}	Collector-base voltage	BC856DW	80
		BC857DW	50
		BC858DW	30

Features

- SOT-23 case for easy automatic insertion
- Pb-free and RoHS compliant

Case dimensions



SOT-363

Unit	A	A _{1max}	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 ±0.8	0.1	0.30 ±0.1	0.25 ±0.15	2.2 ±0.4	1.35 ±0.2	1.3	0.65	2.2 ±0.2	0.45 ±0.3	0.25 ±0.1	0.2	0.1

Absolute maximum ratings (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Collector-emitter voltage	V_{CEO}	BC856DW 65	V
		BC857DW 45	
		BC858DW 30	
Emitter-base voltage	V_{EBO}	5.0	V
Continuous collector current	I_c	100	mA
Total power dissipation	P_D	200	mW
Operating junction temperature range	T _J , T _{STG}	-55 ~ 150	°C

Electrical characteristics (T_A = 25°C)

Characteristic	Test condition	Symbol	Value			Unit
			Min.	Typ.	Max.	
Collector cut-off current	V _{CB} =30V	I _{CBO}	-	-	15	nA
Emitter cutoff current	V _{EB} =5.0V	I _{EBO}	-	-	100	nA
DC current gain BC856ADW~BC858ADW BC856BDW~BC858BDW BC856CDW~BC858CDW	V _{CE} =5V, I _C =2mA	h _{FE}	125 220 420	- - -	250 475 800	
Collector-emitter saturation voltage	I _B =0.5mA, I _C =10mA	V _{CE(sat)}	-	-	300	mV
	I _B =5mA, I _C =100mA		-	-	650	

Small signal characteristics (T_A = 25°C)

Characteristic	Test condition	Symbol	Value			Unit
			Min.	Typ.	Max.	
Current gain bandwidth product	I _C =10mA, V _{CE} =5V, f=100MHz	f _T	100	-	-	MHz
Output capacitance	V _{CB} =10V, f=1.0MHz	C _{obo}	-	-	4.5	pF

Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
BC856xDW-BCx858DW	SOT-363	3000 pcs / reel	---

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