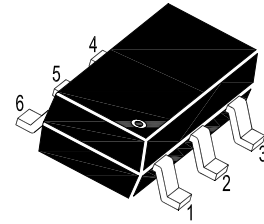
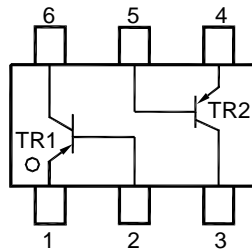


## BC856DW...BC860DW

### PNP Silicon Epitaxial Planar Transistor

for general purpose and switching applications



1. Emitter 2. Base 3. Collector  
4. Emitter 5. Base 6. Collector  
SOT-363 Plastic Package

#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

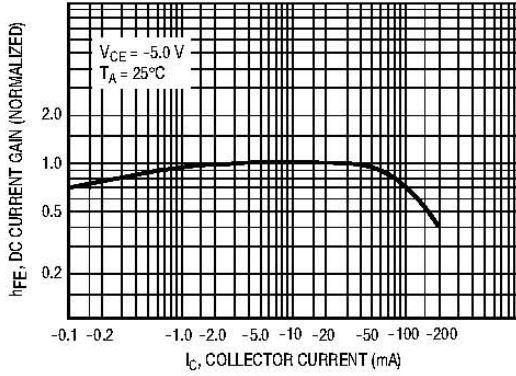
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	BC856DW BC857DW BC858DW BC859DW BC860DW	V
		80	
		50	
		30	
		30	
Collector Emitter Voltage	$-V_{CEO}$	BC856DW BC857DW BC858DW BC859DW BC860DW	V
		65	
		45	
		30	
		30	
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	100	mA
Peak Collector Current	$-I_{CM}$	100	mA
Total Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{Stg}$	- 55 to + 150	$^\circ\text{C}$

## BC856DW...BC860DW

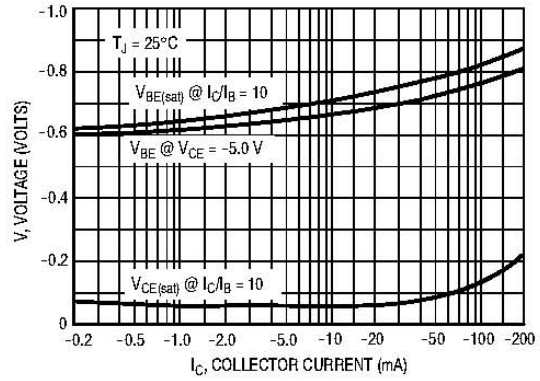
### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit	
DC Current Gain at $-V_{CE} = 5\text{ V}$ , $-I_C = 2\text{ mA}$	BC856ADW~BC860ADW	$h_{FE}$	125	250	-
	BC856BDW~BC860BDW	$h_{FE}$	220	475	-
	BC856CDW~BC860CDW	$h_{FE}$	420	800	-
Collector Base Voltage at $-I_C = 10\text{ }\mu\text{A}$	BC856DW	$-V_{CBO}$	80	-	V
	BC857DW		50	-	
	BC858DW		30	-	
	BC859DW		30	-	
	BC860DW		50	-	
Collector Emitter Voltage at $-I_C = 10\text{ mA}$	BC856DW	$-V_{CEO}$	65	-	V
	BC857DW		45	-	
	BC858DW		30	-	
	BC859DW		30	-	
	BC860DW		45	-	
Emitter Base Voltage at $-I_E = 1\text{ }\mu\text{A}$	$-V_{EBO}$	5	-	V	
Collector Base Cutoff Current at $-V_{CB} = 30\text{ V}$	$-I_{CBO}$	-	15	nA	
Emitter Base Cutoff Current at $-V_{EB} = 5\text{ V}$	$-I_{EBO}$	-	100	nA	
Collector Emitter Saturation Voltage at $-I_C = 10\text{ mA}$ , $-I_B = 0.5\text{ mA}$ $-I_C = 100\text{ mA}$ , $-I_B = 5\text{ mA}$	$-V_{CE(sat)}$	-	0.3	V	
		-	0.65		
Base Emitter Voltage at $-V_{CE} = 5\text{ V}$ , $-I_C = 2\text{ mA}$ $-V_{CE} = 5\text{ V}$ , $-I_C = 10\text{ mA}$	$-V_{BE}$	0.6	0.75	V	
		-	0.82		
Transition Frequency at $-V_{CE} = 5\text{ V}$ , $-I_C = 10\text{ mA}$ , $f = 100\text{ MHz}$	$f_T$	100	-	MHz	
Output Capacitance at $-V_{CB} = 10\text{ V}$ , $I_E = 0$ , $f = 1\text{ MHz}$	$C_{ob}$	-	4.5	pF	

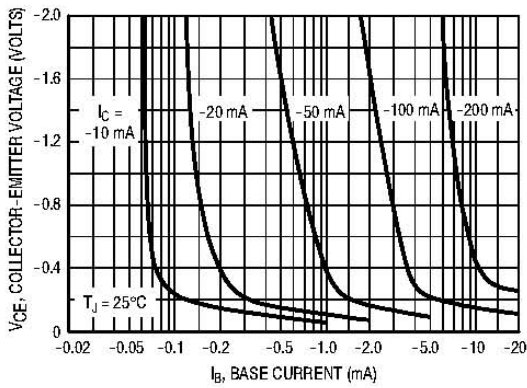
## BC856DW...BC860DW



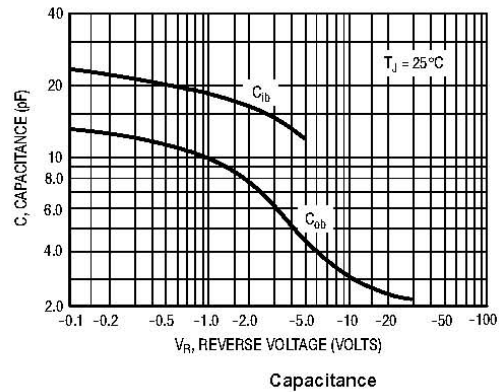
DC Current Gain



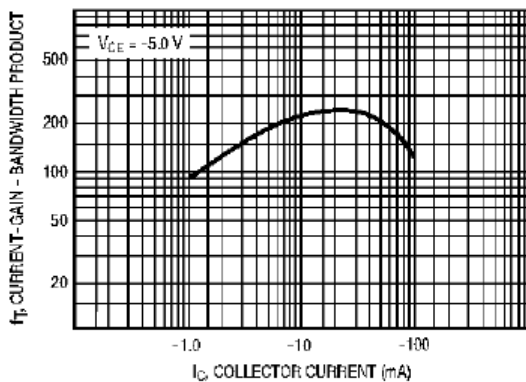
"On" Voltage



Collector Saturation Region



Capacitance



Current-Gain - Bandwidth Product