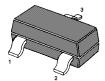
BC856...BC860

PNP Silicon Epitaxial Transistor

for switching and amplifier applications



1. Base 2. Emitter 3. Collector TO-236 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter		Symbol	Value	Unit
Collector Base Voltage	BC856	-V _{CBO}	80	V
	BC857, BC860	-V _{CBO}	50	V
	BC858, BC859	-V _{CBO}	30	V
Collector Emitter Voltage	BC856	-V _{CEO}	65	V
	BC857, BC860	-V _{CEO}	45	V
	BC858, BC859	-V _{CEO}	30	V
Emitter Base Voltage		-V _{EBO}	5	V
Collector Current		-I _C	100	mA
Peak Collector Current		-I _{CM}	200	mA
Power Dissipation		P _{tot}	200	mW
Junction Temperature		Tj	150	°C
Storage Temperature Range		T _{stg}	- 65 to + 150	°C



SEMTECH ELECTRONICS LTD.



Dated: 16/03/2015 Rev: 01

Characteristics at $T_a = 25 \text{ °C}$

Characteristics at T _a = 25 °C							
Parameter		Symbol	Min.	Max.	Unit		
DC Current Gain at $-V_{CE} = 5$ V, $-I_C = 2$ mA	Current Gain Group A B C	h _{FE} h _{FE} h _{FE}	125 220 420	250 475 800	- - -		
Collector Base Cutoff Current at $-V_{CB} = 30 \text{ V}$		-I _{CBO}	-	15	nA		
Collector Base Breakdown Voltage at -I _C = 10 μA	BC856 BC857, BC860 BC858, BC859	-V _{(BR)CBO} -V _{(BR)CBO} -V _{(BR)CBO}	80 50 30	- - -	V V V		
Collector Emitter Breakdown Voltage at -I _C = 10 μA	BC856 BC857, BC860 BC858, BC859	-V _{(BR)CES} -V _{(BR)CES} -V _{(BR)CES}	80 50 30	- - -	V V V		
Collector Emitter Breakdown Voltage at -I _C = 10 mA	BC856 BC857, BC860 BC858, BC859	-V _{(BR)CEO} -V _{(BR)CEO} -V _{(BR)CEO}	65 45 30	- -	V V V		
Emitter Base Breakdown Voltage at $-I_E = 1 \ \mu A$	· · · · · · · · · · · · · · · · · · ·	-V _{(BR)EBO}	5	-	V		
Collector Emitter Saturation Voltage at $-I_C = 10$ mA, $-I_B = 0.5$ mA at $-I_C = 100$ mA, $-I_B = 5$ mA		-V _{CE(sat)} -V _{CE(sat)}	-	0.3 0.65	V V		
Base Emitter On Voltage at $-V_{CE} = 5 \text{ V}, -I_C = 2 \text{ mA}$ at $-V_{CE} = 5 \text{ V}, -I_C = 10 \text{ mA}$		-V _{BE(on)} -V _{BE(on)}	0.6	0.75 0.82	V V		
Current Gain Bandwidth Product at $-V_{CE} = 5 \text{ V}, -I_{C} = 10 \text{ mA}, \text{ f} = 100 \text{ M}$	Hz	f _T	100	-	MHz		
Collector Output Capacitance at $-V_{CB} = 10 \text{ V}, \text{ f} = 1 \text{ MHz}$		C _{ob}	-	6	pF		



SEMTECH ELECTRONICS LTD.



Dated: 16/03/2015 Rev: 01

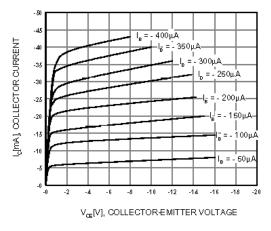


Figure 1. Static Characteristic

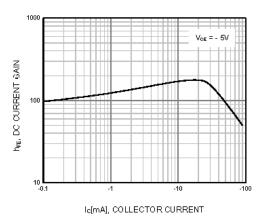


Figure 2. DC current Gain

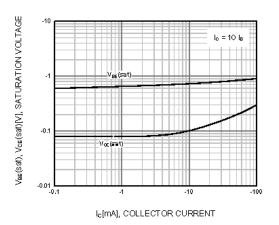


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

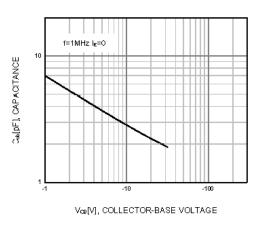


Figure 5. Collector Output Capacitance

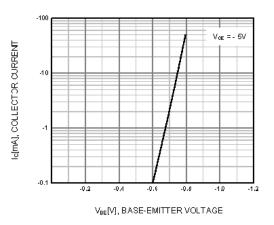


Figure 4. Base-Emitter On Voltage

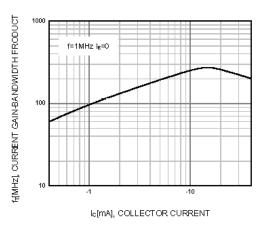


Figure 6. Current Gain Bandwidth Product



SEMTECH ELECTRONICS LTD.



Dated: 16/03/2015 Rev: 01

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Semtech manufacturer:

Other Similar products are found below :

 619691C
 MCH4017-TL-H
 MMBT-2369-TR
 BC546/116
 BC557/116
 BSW67A
 NJVMJD148T4G
 NTE123AP-10
 NTE153MCP
 NTE16

 NTE195A
 NTE92
 C4460
 2N4401-A
 2N6728
 2SA1419T-TD-H
 2SA2126-E
 2SB1204S-TL-E
 2SC2712S-GR,LF
 2SC5488A-TL-H

 2SD2150T100R
 SP000011176
 2N2907A
 2N3904-NS
 2N5769
 2SC2412KT146S
 2SD1816S-TL-E
 CPH6501-TL-E
 MCH4021-TL-E

 MJE340
 US6T6TR
 NJL0281DG
 732314D
 CPH3121-TL-E
 CPH6021-TL-H
 873787E
 IMZ2AT108
 UMX21NTR
 MCH6102-TL-E

 NJL0302DG
 2N3583
 30A02MH-TL-E
 NSV40301MZ4T1G
 NTE13
 NTE26
 NTE323
 NTE350
 NTE81
 STX83003-AP