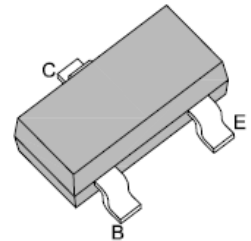


SMD General Purpose Transistor (PNP)

Features

- PNP Silicon Epitaxial Planar Transistor for Switching and Amplifier Applications



Mechanical Data

Case:	SOT-23, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	0.008 gram

SOT-23



Marking Information

	BC856A	BC856B	BC857A	BC857B	BC857C	BC858A	BC858B	BC858C
Marking Code	3A	3B	3E	3F	3G	3J	3K	3L

Maximum Ratings ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	BC856	BC857	BC858	Unit	Conditions
-V _{CB0}	Collector-Base Voltage	80	50	30	V	
-V _{CEO}	Collector-Emitter Voltage	65	45	30	V	
-V _{EB0}	Emitter-Base Voltage	5	5	5	V	
-I _c	Collector Current	100			mA	
P _{tot}	Power Dissipation	350			mW	Note 1
T _J	Junction Temperature	150			°C	
T _{STG}	Storage Temperature Range	-55 to +150			°C	

Note: 1. Package mounted on 99.5% Alumina 10 x 8 x 0.6mm.

SMD General Purpose Transistor (PNP)

BC856/BC857/BC858

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description		Min.	Typ.	Max.	Unit	Conditions
-I_{CBO}	Collector-Emitter Cut-off Current		-	-	15	nA	-V _{CB} =30V, I _E =0
h_{FE}	D.C. Current Gain	BC856/7/8, Suffix 'A'	-	90	-		-V _{CE} =5V, -I _C =10μA
		BC856/7/8, Suffix 'B'	-	150	-		
		BC857/8, Suffix 'C'	-	270	-		
		BC856/7/8, Suffix 'A'	110	180	220		-V _{CE} =5V, -I _C =2mA
		BC856/7/8, Suffix 'B'	200	290	450		
		BC857/8, Suffix 'C'	420	520	800		
-V_{CE(sat)}	Collector-Emitter Saturation Voltage		-	0.09	0.3	V	-I _C =10mA, -I _B =0.5mA
			-	0.25	0.65		-I _C =100mA, -I _B =5mA
-V_{BE(sat)}	Base-Emitter Saturation Voltage		-	0.7	-	V	-I _C =10mA, -I _B =0.5mA
			-	0.9	-		-I _C =100mA, -I _B =5mA
-V_{BE(on)}	Base-Emitter On Voltage		0.6	0.65	0.75	V	-V _{CE} =5V, -I _C =2mA
			-	-	0.82		-V _{CE} =5V, -I _C =10mA
f_T	Current Gain-Bandwidth Product		-	150	-	MHz	-V _{CE} =5V, -I _C =10mA, f=100MHz
C_{ob}	Collector Output Capacitance		-	4.5	-	pF	-V _{CB} =10V, I _E =0, f=1MHz
NF	Noise Figure		-	2.0	10	dB	-V _{CE} =5V, -I _C =0.2mA, R _G =2KΩ, f=1KHz

SMD General Purpose Transistor (PNP)

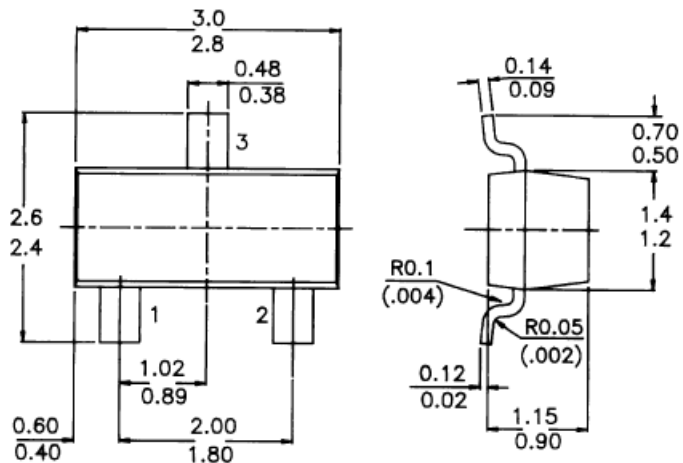
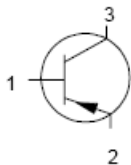
BC856/BC857/BC858

Dimensions in mm

SOT-23

Pin configuration

- 1 = BASE
- 2 = EMITTER
- 3 = COLLECTOR



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