BC856 SERIES BC857 SERIES BC858 SERIES

SURFACE MOUNT PNP SILICON TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC856, BC857 and BC858 Series types are PNP Silicon Transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for general purpose switching and amplifier applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

Note: Reverse Lead Codes Available, Add "R" to the end of the Part # and Marking Code.

central	
SOT-23 CASE	

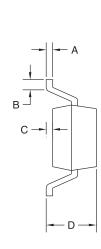
MAXIMUM RATINGS: (T _A =25°C) Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Continuous Collector Current Peak Collector Current Peak Base Current Power Dissipation Operating and Storage Junction Temperature Thermal Resistance		SYMBOL VCBO VCEO VEBO IC ICM IBM PD TJ, Tstg ΘJA	BC858 30 30	BC857 50 45 5.0 100 200 200 350 -65 to +150 357	80 65	UNITS V V MA MA MA MO **C **C/W
ELECTRICAL SYMBOL ICBO ICBO IEBO BVCBO BVCBO BVCEO BVCEO BVCEO BVCEO BVEBO VCE(SAT) VCE(SAT) VBE(ON) T NF	CHARACTERISTICS: (T _A =25°C unline TEST CONDITIONS) V _{CB} =30V V _{CB} =30V, T _A =150°C V _{EB} =5.0V I _C =10µA (BC858) I _C =10µA (BC856) I _C =10µA (BC857) I _C =10mA (BC857) I _C =10mA (BC857) I _C =10mA (BC856) I _C =10mA (BC856) I _C =10mA, I _B =0.5mA I _C =100mA, I _B =5.0mA I _C =100mA, V _{CE} =5.0V I _C =10mA, V _{CE} =5.0V V _{CE} =5.0V, I _C =10mA, f=100MHz V _{CE} =5.0V, I _C =200µA, R _S =2.0KΩ, f=1.0KHz, BW=200Hz	30 50 80 30 45 65 5.0 0.6 100		MAX 15 4.0 100 0.30 0.65 0.75 0.82		UNITS nA µA nA V V V V V V V A MHz dB
h _{FE}	V _{CE} =5.0V, I _C =2.0mA	BC857A BC858A MIN MA 125 250	x	BC857B BC858B MIN MAX 220 475		BC857C BC858C MIN MAX 420 800

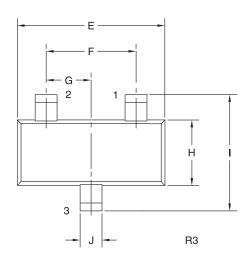
BC856 SERIES BC857 SERIES BC858 SERIES

SURFACE MOUNT PNP SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

STANDARD

*REVERSE

1) BASE

1) EMITTER

2) EMITTER

2) BASE

3) COLLECTOR

3) COLLECTOR

DEVICE	MARKING CODE
BC856A	3A
BC856B	3B
BC857A	3E
BC857B	3F
BC857C	3G
BC858A	3J
BC858B	3K
BC858C	3L

DIMENSIONS							
	INCHES		MILLIM	METERS			
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
Е	0.110	0.120	2.80	3.05			
F	0.075		1.	90			
G	0.037		0.	95			
Н	0.047	0.055	1.19	1.40			
ĺ	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			
SOT-23 (REV: R3)							

SOT-23 (REV: R3)

R2 (20-November 2009)

^{*} Reverse Lead Codes Available, Add "R" to the end of the Part # and Marking Code.

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

CONTACT US

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