查询BC857BW-7-F供应商

捷多邦,专业PCB打样工厂,24小时加急出货



BC856AW - BC858CW

SOT-323

Min

0.25

1.15

2.00

0.30

1.20

1.80

0.0

0.90

0.25

0.10

0

All Dimensions in mm

Max

0.40

1.35

2.20

0.40

1.40

2.20

0.10

1.00

0.40

0.18

8

0.65 Nominal

Dim

Α

В

С

D

Ε

G

н

J

κ

L

М

PNP SURFACE MOUNT SMALL SIGNAL TRANSISTOR

В

Features

Ideally Suited for Automatic Insertion

Complementary NPN Types Available (BC846W-BC848W) For Switching and AF Amplifier Applications

Lead Free/RoHS Compliant (Note 3)

"Green" Device (Note 4 and 5)

Mechanical Data

Case: SOT-323

Case Material: Molded Plastic, "Green" Molding Compound, Note 5. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020C

Terminals: Solderable per MIL-STD-202, Method 208 Lead Free Plating (Matte Tin Finish annealed over

Alloy 42 leadframe).

Pin Connections: See Diagram

Marking Code: See Table Below & Diagram on Page 2 Ordering & Date Code Information: See Page 2

Weight: 0.006 grams (approximate)

Marking Code (Note 2)										
Туре	Marking	Туре	Marking							
BC856AW	K3A	BC857CW	K3G							
BC856BW	K3B	BC858AW	K3J, K3A, K3V							
BC857AW	K3V, K3A	BC858BW	K3K, K3B, K3W							
BC857BW	K3W, K3B	BC858CW	K3L, K3G							

Maximum Ratings @ TA = 25°C unless otherwise specified

Characteristic		Symbol	Value	Unit		
Collector-Base Voltage	BC856 BC857 BC858	V _{CBO}	-80 -50 -30	TO LOW		
Collector-Emitter Voltage	BC856 BC857 BC858	VCEO	-65 -45 -30	V		
Emitter-Base Voltage	-17.00	V _{EBO}	-5.0	V		
Collector Current	L'AD L'D'	Ic	-100	mA		
Peak Collector Current	0250.0	I _{CM}	-200	mA		
Peak Emitter Current	N 75	I _{EM}	-200	mA		
Power Dissipation (Note 1)		Pd	200	mW		
Thermal Resistance, Junction to Ambient (Note 1)	R _{JA}	625	°C/W		
Operating and Storage Temperature Rang	e	T _j , T _{STG}	-65 to +150	°C		

Notes:

1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

Current gain subgroup "C" is not available for BC856W.

No purposefully added lead.

oldes Inc.'s "Green" Policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

5 Product manufactured with date code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to date code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

Electrical Characteristics @ T_A =25°C unless otherwise specified

		1					
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
Collector-Base Breakdown Voltage (Note 6)	BC856 BC857 BC858	V _{(BR)CBO}	-80 -50 -30			v	$I_{\rm C} = 10$ A, $I_{\rm B} = 0$
Collector-Emitter Breakdown Voltage (Note 6)	BC856 BC857 BC858	V _{(BR)CEO}	-65 -45 -30			v	$I_{\rm C} = 10 {\rm mA}, \ I_{\rm B} = 0$
Emitter-Base Breakdown Voltage (Note 6)	V _{(BR)EBO}	-5	—	—	V	$I_E = 1 A, I_C = 0$	
DC Current Gain (Note 4) Current Gain	Group A B C	h _{FE}	125 220 420	180 290 520	250 475 800	_	$V_{CE} = -5.0V, I_C = -2.0mA$
Collector-Emitter Saturation Voltage (Note 6)	V _{CE(SAT)}	_	-75 -250	-300 -650	mV	$I_{C} = -10mA, I_{B} = -0.5mA$ $I_{C} = -100mA, I_{B} = -5.0mA$	
Base-Emitter Saturation Voltage (Note 6)	V _{BE(SAT)}		-700 -850	-950	mV	$I_{C} = -10$ mA, $I_{B} = -0.5$ mA $I_{C} = -100$ mA, $I_{B} = -5.0$ mA	
Base-Emitter Voltage (Note 6)	V _{BE(ON)}	-600	-650	-750 -820	mV	$\begin{array}{l} V_{CE} = -5.0V, \ I_{C} = -2.0mA \\ V_{CE} = -5.0V, \ I_{C} = -10mA \end{array}$	
Collector-Cutoff Current (Note 6)	I _{CBO}		_	-15 -4.0	nA μA	$V_{CB} = -30V$ $V_{CB} = -30V$, $T_A = 150^{\circ}C$	
Gain Bandwidth Product			100	200	_	MHz	$\label{eq:VCE} \begin{array}{l} V_{CE}=\text{-}5.0\text{V},\ I_{C}=\text{-}10\text{mA},\\ f=100\text{MHz} \end{array}$
Collector-Base Capacitance	C _{CBO}	_	3	4.5	pF	V _{CB} = -10V, f = 1.0MHz	
Noise Figure				_	10	dB	$\begin{array}{l} V_{CE} = -5.0V, \ I_{C} = 200 \mu A, \\ R_{S} = 2k f = 1 k H z, \\ f = 200 H z \end{array}$

Ordering Information (Note 5 & 7)

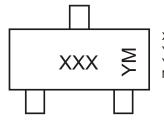
Device	Packaging	Shipping			
BC85xxW-7-F	SOT-323	3000/Tape & Reel			

*xx = device type, e.g. BC856AW-7.

Notes: 5. Product manufactured with date code 0609 (week 9, 2006) and newer are built with Green Molding Compound. Product manufactured prior to date code 0609 are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.

- 6. Short duration pulse test to minimize self-heating effect.
- 7. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

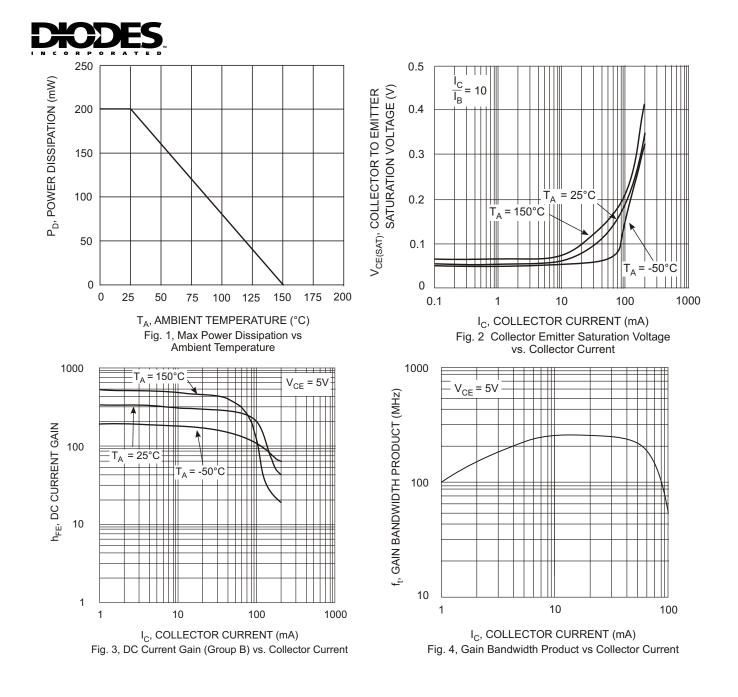
Marking Information



 $\begin{array}{l} XXX = \mbox{Product Type Marking Code (See Page 1), e.g. K3A = BC856AW \\ YM = \mbox{Date Code Marking} \\ Y = \mbox{Year ex: } N = 2002 \\ M = \mbox{Month ex: } 9 = \mbox{September} \end{array}$

Date Code Key

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Code	J	К	L	М	Ν	Р	R	S	Т	U	V	W	Х	Y	Z
I	Month		Jan	Feb	March	Apr	May	Jun	Jul	Aug	Sep	0	ct	Nov	Dec
	Code		4	0	0	4	E	6	7	0	0			Ν	Р



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