

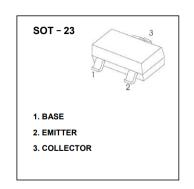
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-BC856/57/58 Series Plastic-Encapsulated Transistor

AD-BC856/57/58 series Transistor (PNP)

FEATURES

- Ideally suited for automatic insertion
- For switching and AF amplifier applications
- AEC-Q101 qualified



MARKING

 $AD-BC856-A = \overline{3}A; AD-BC856-B = \overline{3}B$

AD-BC857-A = $\overline{3}$ E; AD-BC857-B = $\overline{3}$ F; AD-BC857-C = $\overline{3}$ G AD-BC858-A = $\overline{3}$ J; AD-BC858-B = $\overline{3}$ K; AD-BC858-C = $\overline{3}$ L

The -A/B/C indicate the different h_{FE}.

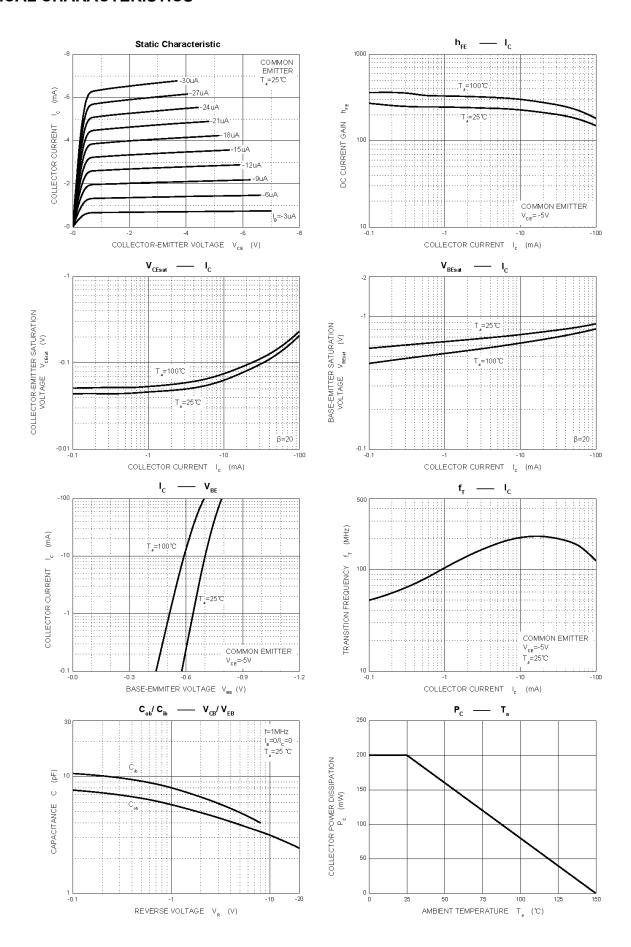
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

Parameter		Symbol	Value	Unit
	AD-BC856*		-80	
Collector-base voltage	AD-BC857*	V_{CBO}	-50	V
	AD-BC858*		-30	
	AD-BC856*		-65	
Collector-emitter voltage	AD-BC857*	$V_{\sf CEO}$	-45	V
	AD-BC858*		-30	
	AD-BC846*		-5	
Emitter-base voltage	AD-BC847*	V _{EBO}	-5	V
	AD-BC848*		-5	
Collector continuous current		Ic	-0.1	Α
Collector power dissipation		Pc	200	mW
Thermal resistance from junction	on to ambient	R _{θJA}	625	°C/W
Operating junction and storage	temperature range	T _j , T _{stg}	-55 ~ 150	°C

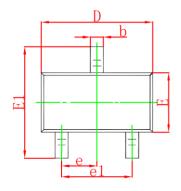
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

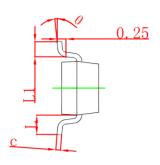
Parameter		Symbol	Test condition	Min	Тур	Max	Unit
Collector-base	AD-BC856*			-80	-	ı	
	AD-BC857*	V _{CBO}	I _C = -10μA, I _E = 0A	-50	-	-	V
breakdown voltage	AD-BC858*			-30	-	-	
0-114	AD-BC856*			-65	-	-	
Collector-emitter	AD-BC857*	Vceo	$I_{C} = -10 \text{mA}, I_{B} = 0 \text{A}$	-45	-	-	V
breakdown voltage	AD-BC858*			-30	-	-	
Cusittan basa	AD-BC856*			-5	-	-	
Emitter-base	AD-BC857*	V_{EBO}	$I_E = -1\mu A, I_C = 0A$	-5	-	-	V
breakdown voltage	AD-BC858*			-5		-	
Callagtar autaff	AD-BC856*		V _{CB} = -70V, I _E = 0A	-	-	-0.1	
Collector cutoff	AD-BC857*	I _{CBO}	V _{CB} = -50V, I _E = 0A	-	-	-0.1	μA
current	AD-BC858*		V _{CB} = -30V, I _E = 0A		-	-0.1	
Emitter cut-off currer	nt	I _{EBO}	V _{EB} = -5V, I _C = 0A	0.1		μA	
	AD-BC85*-A			125	-	250	
DC current gain	AD-BC85*-B	h _{FE}	$V_{CE} = -5V, I_{C} = -2mA$	220	-	475	-
AD-BC85*-C			420	-	800		
Collector-emitter saturation voltage		V _{CE(sat)}	I _C = -100mA, I _B = -5mA	-	-	-0.5	V
Base-emitter saturati	on voltage	V _{BE(sat)}	I _C = -100mA, I _B = -5mA	-	-	1.1	
Transition frequency		f⊤	V _{CE} = -5V, I _C = -10mA, f = 100MHz	100	100		MHz
Collector output capa	acitance	Cob	V _{CB} = -10V, f = 1MHz	-	-	4.5	pF

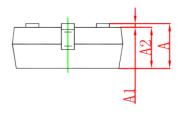
TYPICAL CHARACTERISTICS



SOT-23 PACKAGE OUTLINE DIMENSIONS

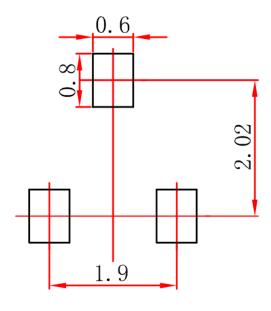






Complete	Dimensions	In Millimeters	Dimension	s In Inches	
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950	TYP	0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550	REF	0.022	REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 SUGGESTED PAD LAYOUT

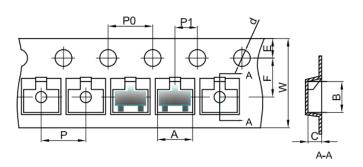


Note:

- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-23 TAPE AND REEL

SOT-23 Embossed Carrier Tape

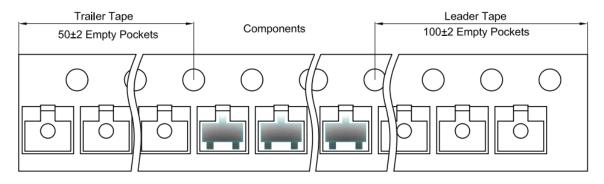


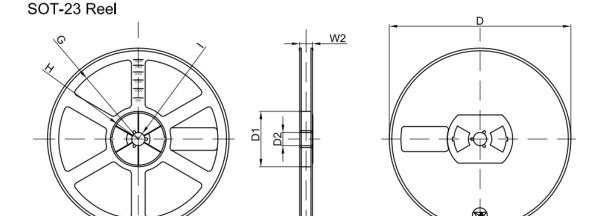
Packaging Description:

SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

	Dimensions are in millimeter									
Pkg type A B C d E F P0 P P1 W						W				
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer





Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

W1

REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

PUBLISHED BY

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

13th Floor, C Block, Tengfei Building, Yan Chuang Yuan, Nanjing Jiangbei New Area, China

LEGAL DISCLAIMER

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples, hints or typical values stated herein and/or any information regarding the application of the device, JSCJ hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of JSCJ in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

INFORMATION

For further information on technology, delivery terms and conditions as well as prices, please contact your nearest JSCJ office (www.jscj-elec.com).

WARNINGS

Due to technical requirements, products may contain dangerous substances. For information on the types in question, please contact your nearest JSCJ office.

Except as otherwise explicitly approved by JSCJ in a written document signed by authorized representatives of JSCJ, JSCJ's products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

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 Changjing Electronics Technology manufacturer:

Other Similar products are found below:

BC559C MCH4017-TL-H MMBT-2369-TR BC546/116 NJVMJD148T4G NTE16 NTE195A IMX9T110 2N4401-A 2N4403 2N6728

2SA1419T-TD-H 2SA2126-E 2SB1204S-TL-E FMC5AT148 2N2369ADCSM 2N2907A 2N3904-NS 2N5769 2SC4618TLN CPH6501
TL-E MCH4021-TL-E Jantx2N5416 US6T6TR BAX18/A52R BC556/112 IMZ2AT108 MMST8098T146 UMX21NTR MCH6102-TL-E

TTA1452B,S4X(S 2N3879 NTE13 NTE282 NTE323 NTE350 NTE81 JANTX2N2920L JANTX2N3735 JANSR2N2222AUB

CMLT3946EG TR SNSS40600CF8T1G CMLT3906EG TR GRP-DATA-JANS2N2907AUB GRP-DATA-JANS2N2222AUA

MMDT3946FL3-7 2N4240 JANS2N3019 MSB30KH-13 2N2221AUB