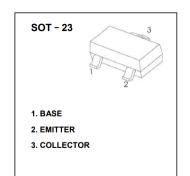
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

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}.

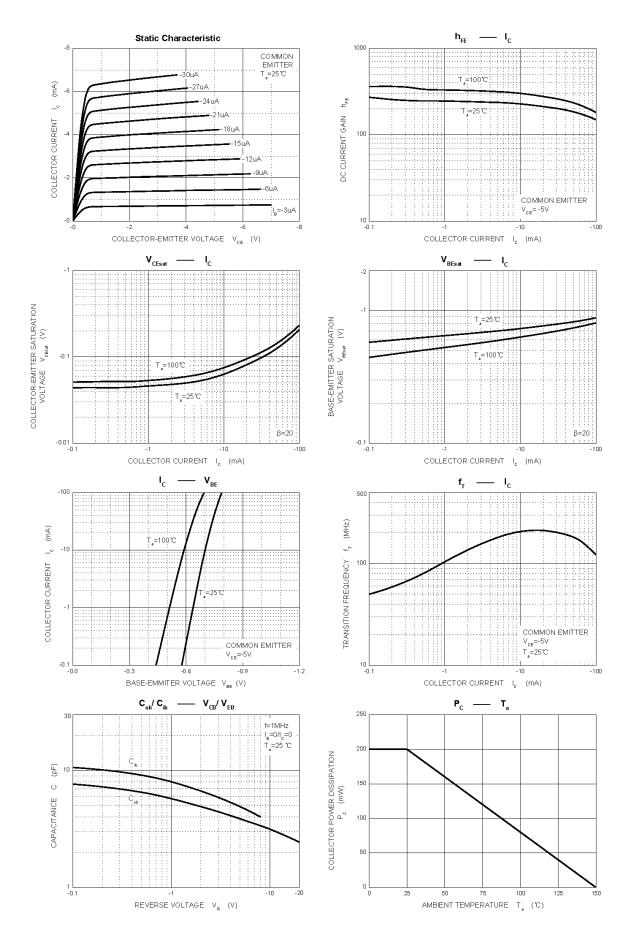
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

Paramete	r	Symbol	Value	Unit
	AD-BC856*		-80	
Collector-base voltage	AD-BC857*	V _{CBO}	-50	V
	AD-BC858*		-80 V _{CBO} -50 -30 -30 VCEO -45 -30 -30 VCEO -45 -30 -30 VEBO -5 Ic -0.1 Pc 200 Reja 625	
	AD-BC856*		-65	
Collector-emitter voltage	AD-BC857*	V _{CEO}	-45	V
	AD-BC858*		-30	
	AD-BC846*		-5	
Emitter-base voltage	AD-BC847*	VEBO	-5	V
	AD-BC848*		-5	
Collector continuous current	·	lc	-0.1	A
Collector power dissipation		Pc	200	mW
Thermal resistance from junct	ion to ambient	Reja	625	°C/W
Operating junction and storag	e temperature range	Tj, T _{stg}	-55 ~ 150	°C

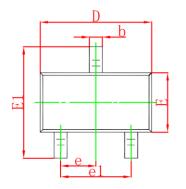
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

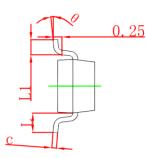
Parame	ter	Symbol	Test condition	Min	Тур	Мах	Unit
Collector-base	AD-BC856*			-80	-	-	
	AD-BC857*	V_{CBO} I _C = -10µA, I _E = 0A		-50	-	-	V
breakdown voltage	AD-BC858*			-30	-	-	
Callester emitter	AD-BC856*			-65	-	-	
Collector-emitter	AD-BC857*	VCEO	Ic = -10mA, I _B = 0A	-45	-	-	V
breakdown voltage	AD-BC858*			-30	-	-	
	AD-BC856*			-5	-	-	
Emitter-base	AD-BC857*	V _{EBO}	$I_{E} = -1\mu A$, $I_{C} = 0A$	-5	-	-	V
breakdown voltage	AD-BC858*			-5	-	-	
	AD-BC856*		$V_{CB} = -70V, I_E = 0A$	-	-	-0.1	μA
Collector cutoff current	AD-BC857*	I _{СВО}	$V_{CB} = -50V, I_{E} = 0A$	-	-	-0.1	
current	AD-BC858*	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-0.1			
Emitter cut-off curren	ıt	I _{EBO}	V _{EB} = -5V, I _C = 0A	-	-	-0.1	μA
	AD-BC85*-A			125	-	250	-
DC current gain	AD-BC85*-B	hfe	V _{CE} = -5V, I _C = -2mA	220	-	475	
	AD-BC85*-C			420	-	800	
Collector-emitter satu	uration voltage	V _{CE(sat)}	I _C = -100mA, I _B = -5mA	-	-	-0.5	V
Base-emitter saturation voltage		V _{BE(sat)}	I _C = -100mA, I _B = -5mA	-	-	-1.1	V
Transition frequency		f⊤	V _{CE} = -5V, I _C = -10mA, f = 100MHz	Ic = -10mA, f = 100MHz 100		MHz	
Collector output capa	acitance	Cob	V _{CB} = -10V, f = 1MHz	-	-	4.5	pF

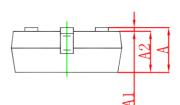
TYPICAL CHARACTERISTICS



www.jscj-elec.com SOT-23 PACKAGE OUTLINE DIMENSIONS

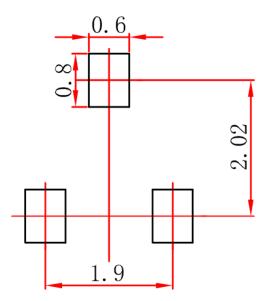






Symbol	Dimensions	In Millimeters	Dimension	s In Inches	
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950) TYP	0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022	2 REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	<mark>8</mark> °	

SOT-23 SUGGESTED PAD LAYOUT

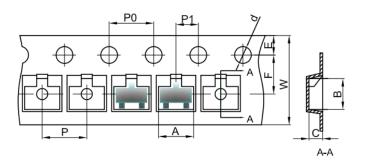


Note:

- 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

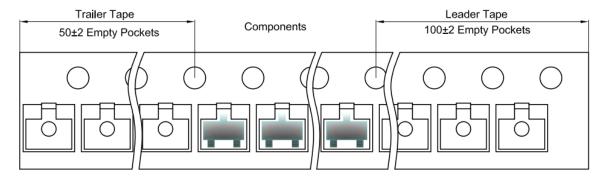


Packaging Description:

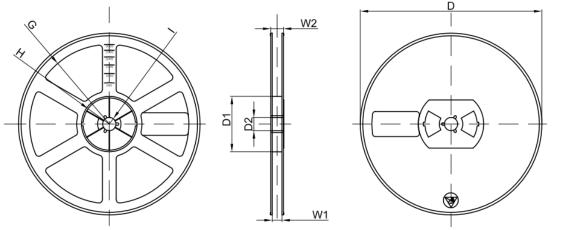
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in 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



SOT-23 Reel



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	

	REEL	Reel Size	Box	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

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