

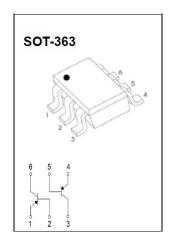
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-BC856S Plastic-Encapsulated Transistor

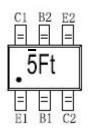
AD-BC856S Dual transistor (PNP + PNP)

FEATURES

- Two transistors in one package
- Reduces number of components and board space
- No mutual interference between the transistors
- AEC-Q101 qualified



MARKING



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

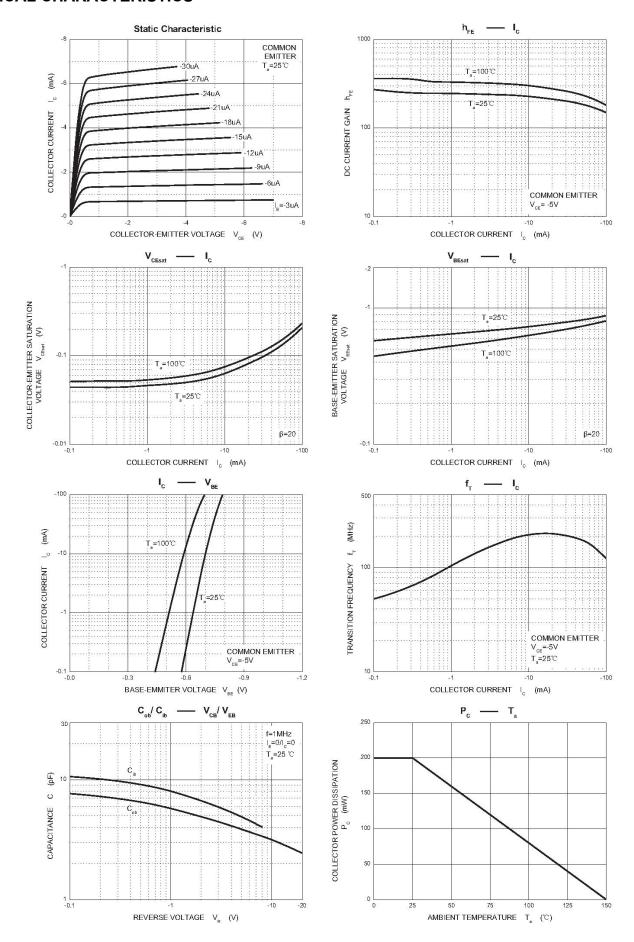
Parameter	Symbol	Value	Unit
Collector-base voltage	V _{CBO}	-80	V
Collector-emitter voltage	V _{CEO}	-65	V
Emitter-base voltage	V_{EBO}	-5	V
Collector continuous current	Ic	-0.1	Α
Collector power dissipation	Pc	0.2	mW
Thermal resistance from junction to ambient	R _{θJA}	625	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS ($T_j = 25^{\circ}C$ unless otherwise specified)

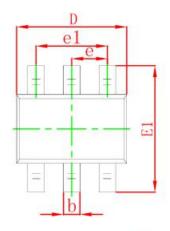
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Collector-base breakdown voltage V _{(BR)CBO}		$I_{C} = -10\mu A, I_{E} = 0A$		-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -10mA, I _B = 0A	-65	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	$I_E = -10\mu A, I_C = 0A$	-5	-	-	V
Collector cut-off current	I _{CBO}	V _{CB} = -30V, I _E = 0A	-	-	-15	nA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _E = 0A			-100	nA
DC current gain	h _{FE}	V_{CE} = -5V, I_C = -2mA	110	-	-	
Collector emitter enturation voltage	V _{CE(sat)}	I _C = -10mA, I _B = -0.5mA	-	-	-0.1	\ \
Collector-emitter saturation voltage		$I_C = -100 \text{mA}, I_B = -5 \text{mA}^*$	-	-	-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -10mA, I _B = -0.5mA	-	0.7	_	V
Transition frequency	f⊤	$V_{CE} = -5V, I_{C} = -10mA, f = 100MHz$	100	-	_	MHz
Collector output capacitance	C _{obo}	V _{CB} = -10V, I _E = 0A, f = 1MHz	-	-	2.5	pF

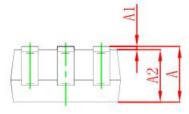
^{*}pulse test: PW \leq 350µS, δ \leq 2%.

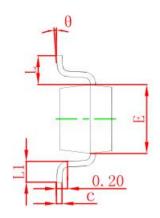
TYPICAL CHARACTERISTICS



SOT-363 PACKAGE OUTLINE DIMENSIONS

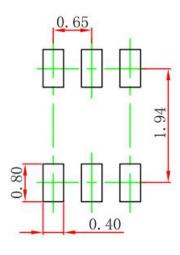






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650	TYP	0.026	TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021	REF	
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

SOT-363 SUGGESTED PAD LAYOUT

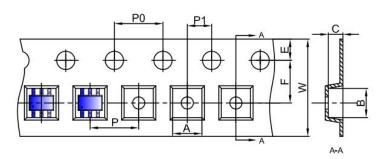


Note:

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

SOT-363 TAPE AND REEL

SOT-363 Embossed Carrier Tape

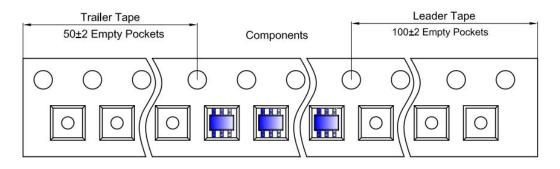


Packaging Description:

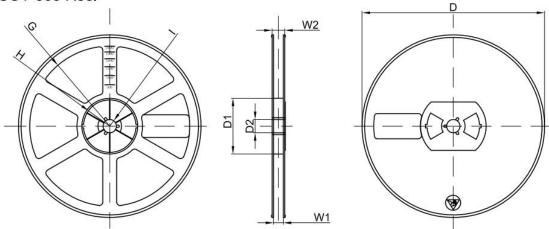
SOT-363 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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									Me .
Pkg type	А	В	С	d	E	F	P0	Р	P1	W
SOT-363	2.25	2.55	1.20	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-363 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

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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