

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

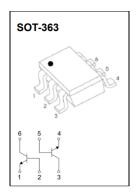
AD-BC847S Plastic-Encapsulated Transistor

AD-BC847S

Dual transistor (NPN + NPN)

FEATURES

- For general purpose amplifier applications
- AEC-Q101 qualified



MARKING

1C

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

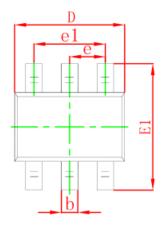
Parameter	Symbol	Value	Unit
Collector-base voltage	V _{CBO}	50	V
Collector-emitter voltage	V _{CEO}	45	V
Emitter-base voltage	V _{EBO}	6	V
Collector continuous current	Ic	0.1	Α
Collector power dissipation	Pc	200	mW
Thermal resistance from junction to ambient	R _{θJA}	625	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

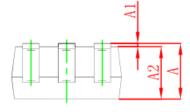
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

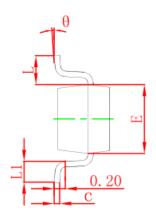
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Collector-base breakdown voltage V _{(BR)CBC}		I _C = 10μA, I _E = 0A	50	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B = 0A	45	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 10μA, I _C = 0A	6	-	-	V
Collector cutoff current	Ісво	V _{CB} = 30V, I _E = 0A	-	-	15	nA
Emitter cutoff current	I _{EBO}	V _{EB} = 4V, I _C = 0A	-	-	15	nΑ
DC current gain	h _{FE} 1)	V _{CE} = 5V, I _C = 2mA	110	-	630	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 10mA, I _B = 0.5mA	-	-	0.25	V
Collector-entitler saturation voltage		I _C = 100mA, I _B = 5mA	-	-	0.65	V
Bass amittar valtage	V _{BE(on)}	V _{CE} = 5V, I _C = 2mA	580	-	700	m\/
Base-emitter voltage		V _{CE} = 5V, I _C = 10mA -		-	770	mV
Transition frequency	f⊤	V _{CE} = 5V, I _C = 10mA, f = 100MHz	-	200	-	MHz
Collector output capacitance	Cob	V _{CB} = 10V, I _E = 0A, f = 1MHz	-	2	-	pF

¹⁾ Pulse width \leq 300 μ s, duty cycle \leq 2.0%.

SOT-363 PACKAGE OUTLINE DIMENSIONS

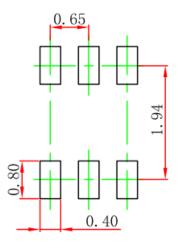






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.65	0 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

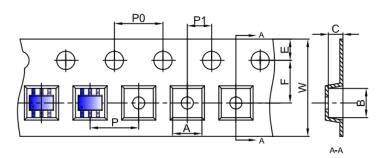


Note:

- 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

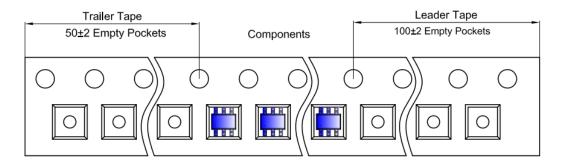


Packaging Description:

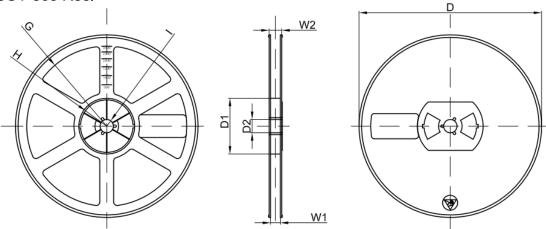
SOT-363 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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										
Pkg type	Α	В	С	d	Е	F	P0	Ρ	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"D i a	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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