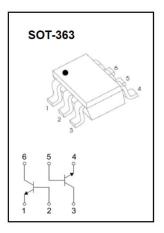


AD-BC846S Plastic-Encapsulated Transistor

AD-BC846S Dual transistor (NPN + NPN)

FEATURES

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



MARKING : 4Ft

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}	6	V
Collector continuous current	lc	0.1	A
Collector power dissipation	Pc	200	mW
Operating junction and storage temperature range	Tj, Tstg	-55 ~ 150	۵°

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

Parameter	Symbol	Test condition	Min	Тур	Мах	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_{C} = 10 \mu A, I_{E} = 0 A$	80	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	$I_{\rm C}$ = 10mA, $I_{\rm B}$ = 0A	65	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 10μΑ, I _C = 0Α	6	-	-	V
Collector cutoff current	I _{СВО}	$V_{CB} = 30V, I_E = 0A$	-	-	15	nA
Emitter cut-off current	I _{EBO}	$I_{C} = 0A, V_{EB} = 5V$	-	-	500	nA
DC current gain	h _{FE}	V _{CE} = 5V, I _C = 2mA	200	-	450	-
Collector emitter acturation voltage	V _{CE(sat)(1)}	I _C = 10mA, I _B = 0.5mA	-	-	0.1	V
Collector-emitter saturation voltage	V _{CE(sat)(2)}	I _C = 100mA, I _B = 5mA	-	-	0.3	V
Base-emitter voltage	V _{BE(sat)}	I _C = 10mA, I _B = 0.5mA	-	0.77	-	V
Transition frequency	f⊤	V _{CE} = 5V, I _E = 10mA, f = 100MHz	100	-	-	MHz
Collector output capacitance	C _{ob}	V_{CB} = 10V, I _E = 0A, f = 1MHz	-	-	1.5	pF

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

(mA)

COLLECTOR CURRENT I

1000

100

COLLECTOR-EMITTER SATURATION VOLTAGE V_{CEst} (mV) Static Characteristic

COLLECTOR-EMITTER VOLTAGE V_{ce} (V)

V_{CEsat}

BuA-

16uA

14

٦,

T_=100°C

T =25°C

COMMON EMITTER T_=25°C

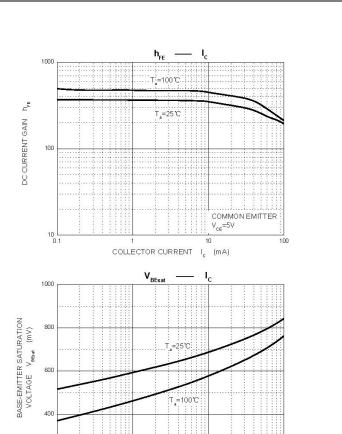
> 8uA --6uA--4uA

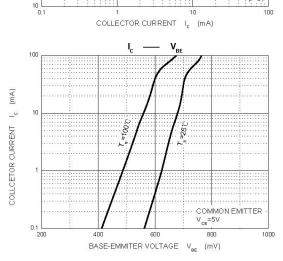
> > °l<mark>}</mark>=2uA

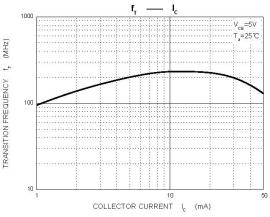
β=20

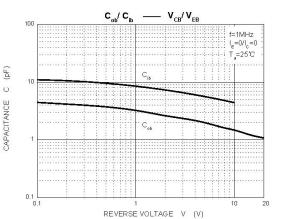
200 L

20uA





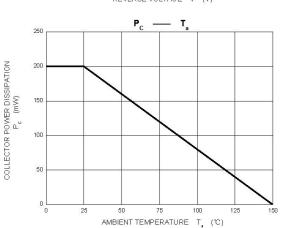




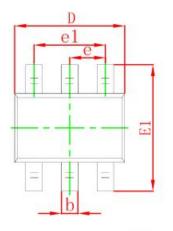
COLLECTOR CURRENT I (mA)

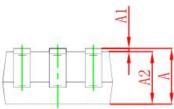
β=20

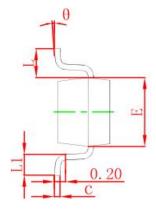
100



www.jscj-elec.com SOT-363 PACKAGE OUTLINE DIMENSIONS

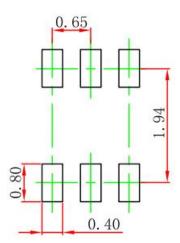






Sumbol	Dimensions	In Millimeters	Dimension	s In Inches
Symbol	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
C	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650) TYP	0.026	S TYP
e1	1.200	1.400	0.047	0.055
L	0.525	5 REF	0.021	REF
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-363 SUGGESTED PAD LAYOUT

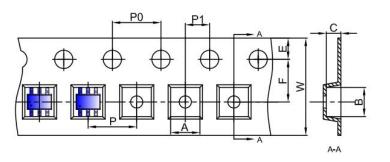


Note:

- 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

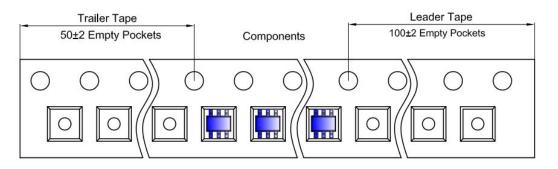


Packaging Description:

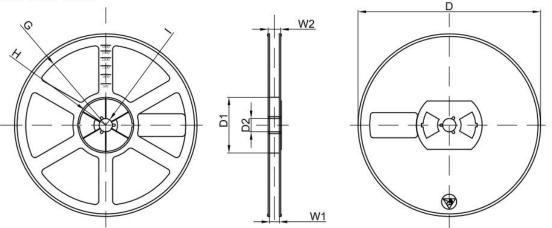
SOT-363 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts 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	A	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



SOT-363 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	

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