

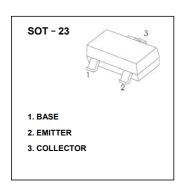
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-KSA1182 series Plastic-Encapsulated Transistor

AD-KSA1182 series Transistor (PNP)

FEATURES

- Complementary to AD-KSC2859
- AEC-Q101 qualified



MAXIMUM RATINGS ($T_j = 25^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Value	Unit	
Collector-base voltage	V _{CBO}	-35	V	
Collector-emitter voltage	V _{CEO}	-30	V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector continuous current	Ic	-500	mA	
Collector power dissipation	Pc	150	mW	
Operating junction and storage temperature range	T_{j}, T_{stg}	-55 ~ 150	°C	

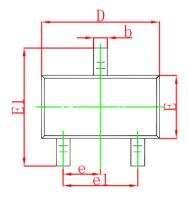
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

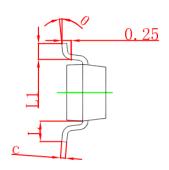
Parameter	Symbol	Test condition		Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100 \mu A, I_E = 0A$	-35	-	•	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I _C = -1mA, I _B = 0A	-30	-	ı	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100 \mu A, I_C = 0A$	-5	-	•	V
Collector cut-off current	I _{CBO}	V _{CB} = -35V, I _E = 0A	-	-	-0.1	μΑ
Emitter-base cut-off current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0A$	-	-	-0.1	μΑ
DC aumant rain	h _{FE(1)}	V _{CE} = -1V, I _C = -100mA	70	-	240	
DC current gain	h _{FE(2)}	V _{CE} = -6V, I _C = -400mA	25	-	•	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	I _C = -100mA, I _B = -10mA	-	-	-250	mV
Base-emitter voltage	$V_{BE(on)}$	V _{CE} = -1V, I _C = -100mA	-	-	-1	V
Transition frequency	f⊤	V _{CE} = -6V, I _C = -20mA	-	200	•	MHz
Collector output capacitance	Cob	$V_{CB} = -6V, I_E = 0, f = 1MHz$	-	13	-	pF

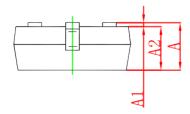
CLASSIFICATION OF hFE(1)

Rank	AD-KSA1182-O	AD- KSA1182-Y		
Range	70-140	120-240		
Marking	F10	F1Y		

SOT-23 PACKAGE OUTLINE DIMENSIONS

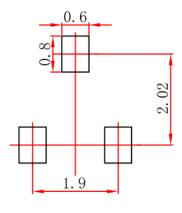






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	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

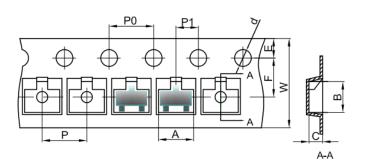


Note:

- 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



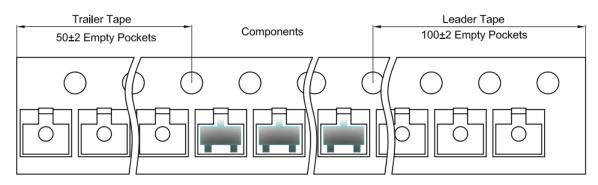
Packaging Description:

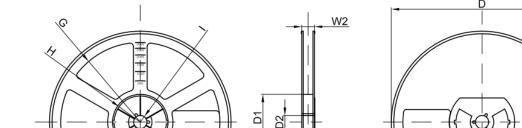
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in 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	Α	В	С	d	E	F	P0	Р	P1	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







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	

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