JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

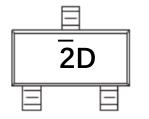
AD-MMBTA92 Plastic-Encapsulated Transistor

AD-MMBTA92 Transistor (PNP)

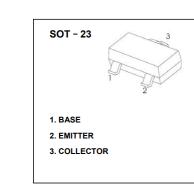
FEATURES

- High voltage transistor
- AEC-Q101 qualified

MARKING



 $\overline{2}D$ = Device code



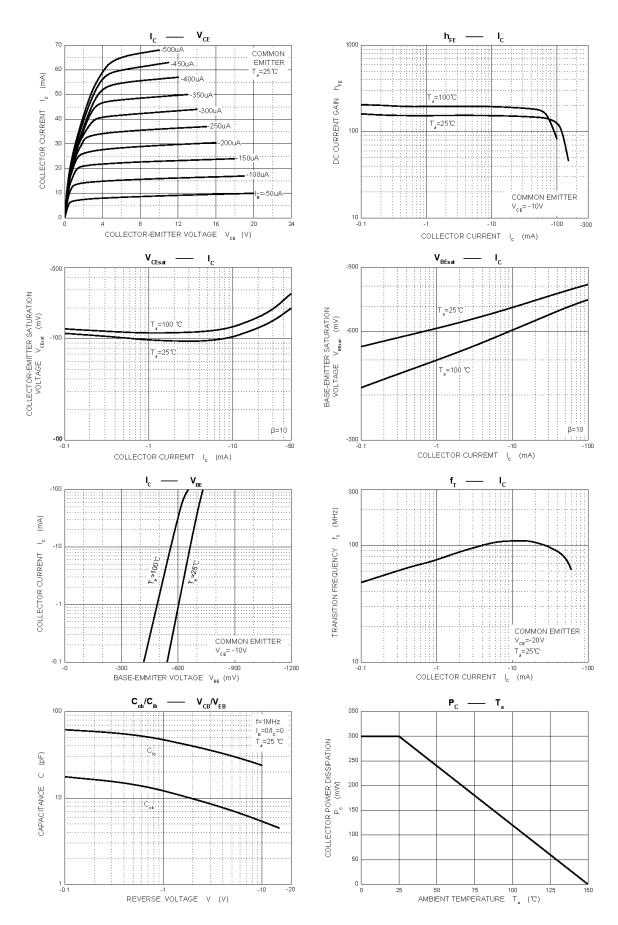
MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-base voltage	V _{CBO}	-300	V
Collector-emitter voltage	V _{CEO}	-300	V
Emitter-base voltage	V _{EBO}	-5	V
Collector continuous current	lc	-200	mA
Collector power dissipation	Pc	300	mW
Thermal resistance from junction to ambient	R _{θJA}	417	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

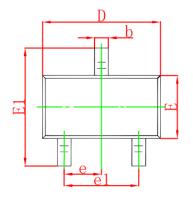
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

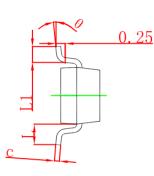
Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μA, I _E = 0A	-300	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B = 0A	-300	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	Ι _Ε = -100μΑ, Ι _C = 0Α	-5	-	-	V
Collector-base cut-off current	Ісво	V _{CB} = -200V, I _E = 0A	-	-	-0.25	μA
Emitter-base cut-off current	IEBO	V _{EB} = -5V, I _C = 0A	-	-	-0.1	μA
	hfe(1)	V _{CE} = -10V, I _C = -1mA	60	-	-	
DC current gain	hfe(2)	V _{CE} = -10V, I _C = -10mA	100	-	200	-
	hFE(3)	V _{CE} = -10V, I _C = -30mA	60	-	-	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -20mA, I _B = -2mA	-	-	-0.2	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = -20mA, I _B = -2mA	-	-	-0.9	V
Transition frequency	f⊤	V _{CE} = -20V, I _C = -10mA, f = 30MHz	50	-	-	MHz

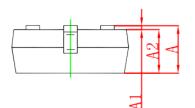
TYPICAL CHARACTERISTICS



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

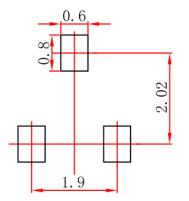






Symbol	Dimensions	In Millimeters	Dimension	s In Inches
Symbol	Min	Max	Min	Max
А	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		0.037	7 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°	<mark>8</mark> °	0°	<mark>8</mark> °

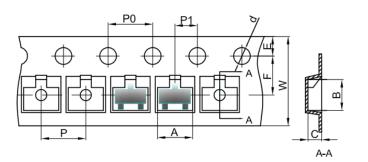
SOT-23 SUGGESTED PAD LAYOUT



Note:

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

SOT-23 Embossed Carrier Tape

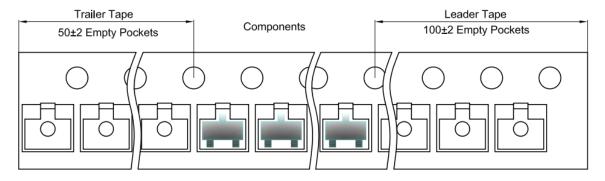


Packaging Description:

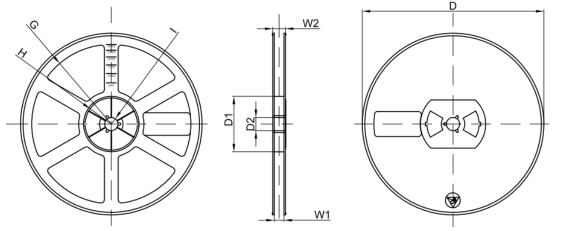
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in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



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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