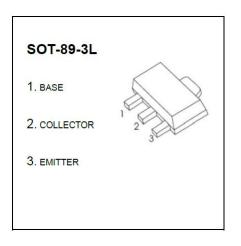


AD-2SA1797* Series Plastic-Encapsulated Transistor

AD-2SA1797* series Transistor (PNP)

FEATURES

- Low saturation voltage
- Excellent DC current gain characteristic
- Complementary to AD-2SC4672* series
- AEC-Q101 qualified



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}	-50	V
Emitter-base voltage	V _{EBO}	-6	V
Collector continuous current	lc	-2	A
Peak pulse Current	I _{CM}	-3	A
Collector power dissipation	Pc	500	mW
Thermal resistance from junction to ambient	R _{0JA}	250	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

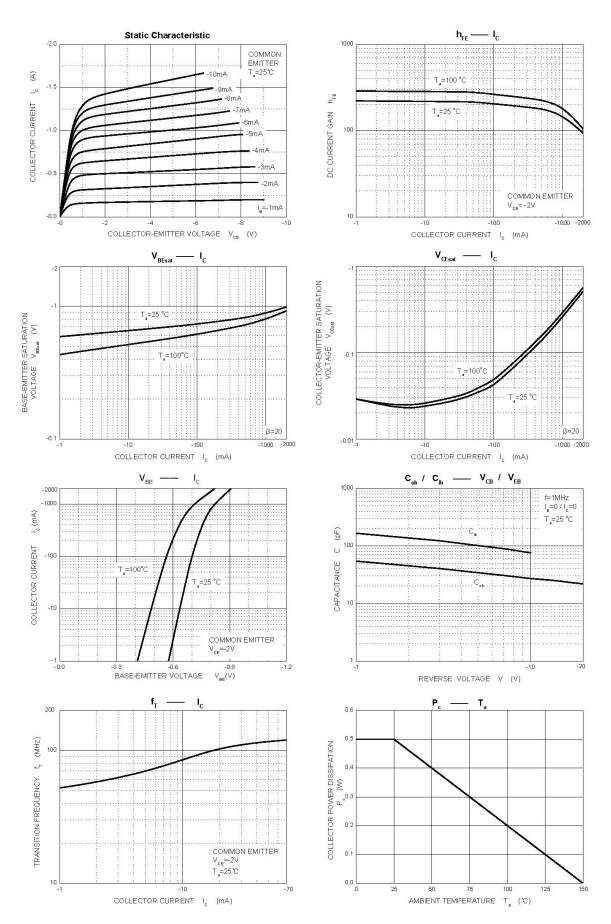
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

Parameter	Symbol	Test condition	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_{\rm C}$ = -50µA, $I_{\rm E}$ = 0A	-50	-	-	V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA, I _B = 0A	-50	-	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -50μA, I _C = 0A	-6	-	-	V
Collector-base cut-off current	I _{СВО}	$V_{CB} = -50V, I_{E} = 0A$	-	-	-100	nA
Emitter-base cut-off current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0A$	-	-	-100	nA
DC current gain	h _{FE}	V _{CE} = -2V, I _C = -500mA	82	-	390	-
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -1A, I _B = -50mA	-	-	-0.35	V
Transition frequency	f⊤	V _{CE} = -2V, I _C = -0.5A, f = 100MHz	-	200	-	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0A, f = 1MHz	-	36	-	pF

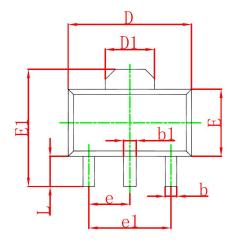
CLASSIFICATION OF hFE

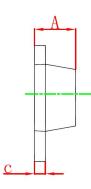
RANK	AD-2SA1797-P	AD-2SA1797-Q	AD-2SA1797-R
RANGE	82 ~ 180	120 ~ 270	180 ~ 390
MARKING	ĀGP	ĀGQ	ĀGR

1) Maximum allowed temperature $T_j = 25^{\circ}C$.



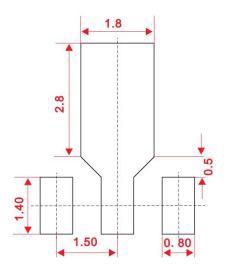
SOT-89-3L PACKAGE OUTLINE DIMENSIONS





Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.400	0.580	0.016	0.023	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.550	REF.	0.061 REF.		
Е	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
е	1.500	TYP.	0.060 TYP.		
e1	3.000 TYP.		0.118	STYP.	
L	0.900	1.200	0.035	0.047	

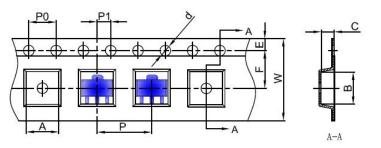
SOT-89-3L SUGGESTED PAD LAYOUT



Note:

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

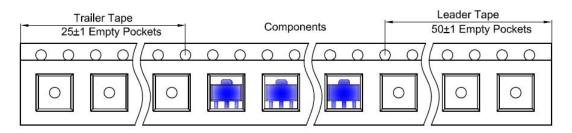
SOT-89-3L Embossed Carrier Tape



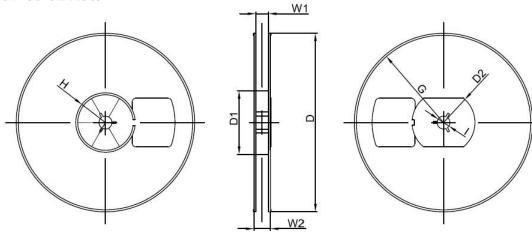
Packaging Description: SOT-89-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 1,000 units per 7" or 18.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

				Dimensions a	are in millime	ter				
Pkg type	А	В	С	d	E	F	P0	Р	P1	W
SOT-89-3L	4,85	4,45	1,85	Ø1.50	1,75	5,50	4,00	8,00	2,00	12,00

SOT-89-3L Tape Leader and Trailer



SOT-89-3L Reel



			Dimension	ns are in millimet	er			
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50

REEL	Reel Size	Box	Box Slze(mm)	Carton	Carton Slze(mm)	G.W.(kg)
1000 pcs	7 inch	10,000 pcs	203×203×195	40,000 pcs	438×438×220	

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