

Plastic-Encapsulate Transistors

TRANSISTOR(PNP)

Features

- ◆Low saturation voltage
- ◆Excellent DC current gain characteristics
- ◆Complements to 2SC4672

Mechanical Data

- ◆SOT-89 IOutline Plastic Package
- ◆Epoxy UL: 94V-0
- ◆Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	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 Current-Continuous	I_C	-2	A
Peak Pluse Current	I_{CM}	-3	A
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C

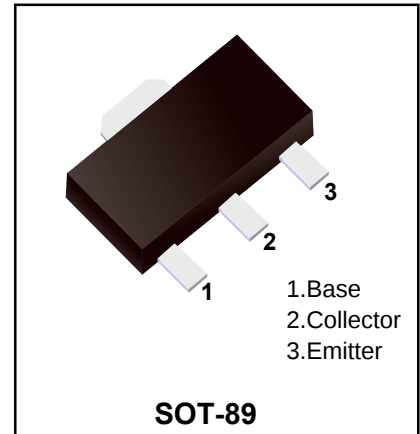
Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

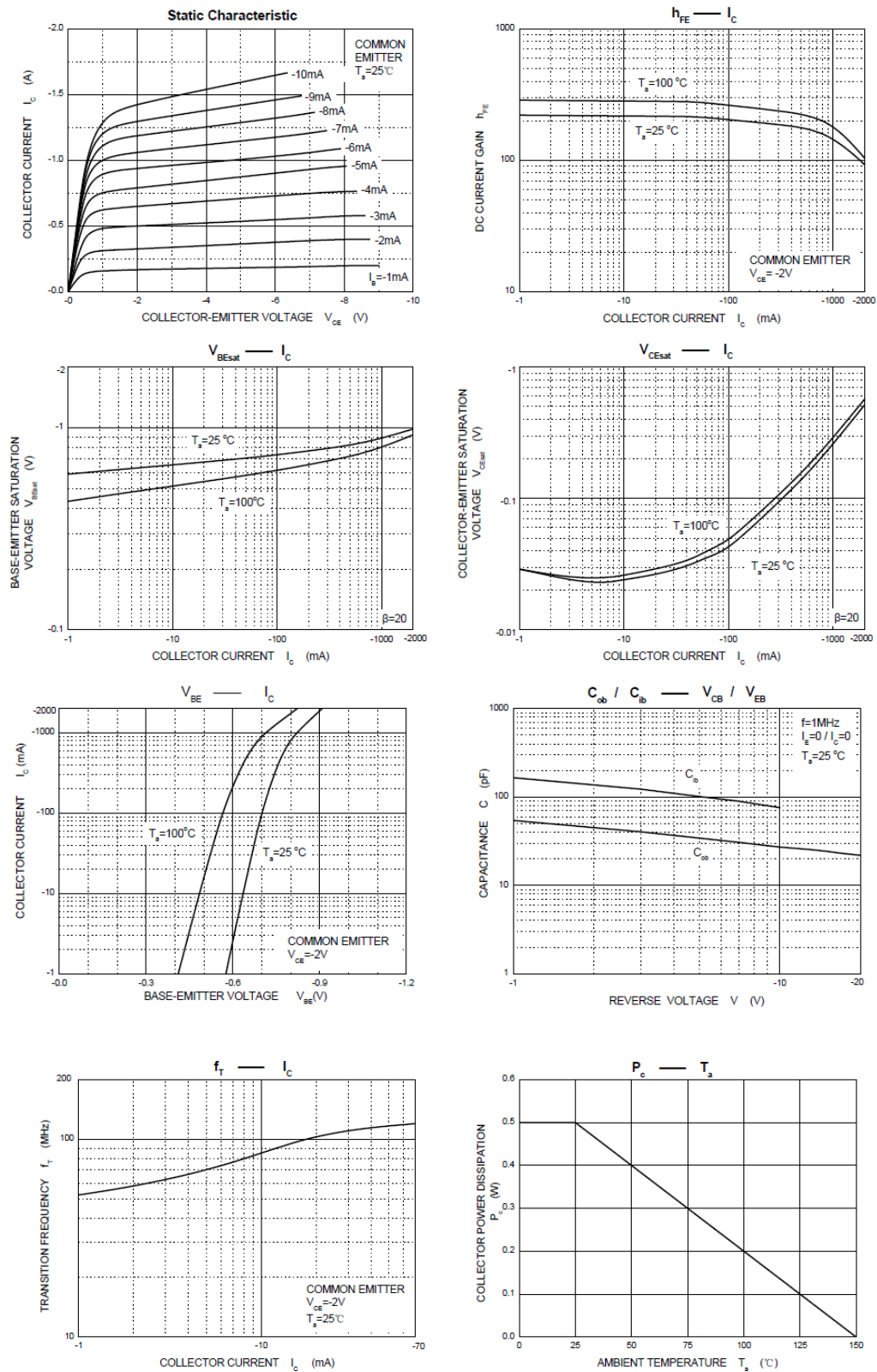
Parameter	Test Condition	Symbols	Limits			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	$I_C=-50\mu A, I_E=0$	$V_{(BR)CBO}$	-50	-	-	V
Collector-emitter breakdown voltage	$I_C=-1mA, I_B=0$	$V_{(BR)CEO}$	-50	-	-	V
Emitter-base breakdown voltage	$I_E=-50\mu A, I_C=0$	$V_{(BR)EBO}$	-6	-	-	V
Collector cut-off current	$V_{CB}=-50V, I_E=0$	I_{CBO}	-	-	-0.1	uA
Emittercut-off current	$V_{EB}=-5V, I_C=0$	I_{EBO}	-	-	-0.1	uA
DC current gain	$V_{CE}=-2V, I_C=-500mA$	$h_{FE(1)}$	82	-	390	
Collector-emitter saturation voltage	$I_C=-1A, I_B=-50mA$	$V_{CE(sat)}$	-	-	-035	V
Transition frequency	$V_{CE}=-2V, I_C=-500mA, f=100MHz$	f_T	-	200	-	MHz
Collector output capacitance	$V_{CB}=-10V, I_E=0, f=1MHz$	C_{ob}	-	36	-	pF

CLASSIFICATION OF $h_{FE(1)}$

RANK	2SA1797-P	2SA1797-Q	2SA1797-R
RANGE	82-180	120-270	180-390
MARKING	AG PN	AG QN	AG RN



Typical characteristics



Ordering information

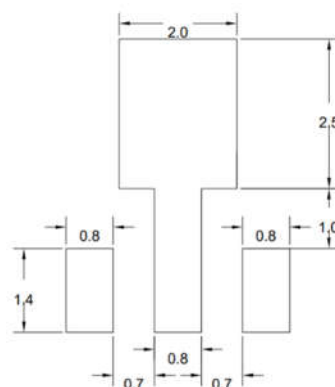
Package	Packing Description	Base Quantity	Packing Quantity
SOT-89	Tape/Reel, 7" reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-89

Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.40	1.60	0.055	0.063
b	0.32	0.52	0.013	0.020
b1	0.38	0.58	0.015	0.023
c	0.35	0.45	0.014	0.018
D	4.40	4.60	0.173	0.181
D1	1.45	1.65	0.057	0.065
D2	1.70	1.80	0.067	0.071
E	2.30	2.60	0.091	0.102
E1	3.95	4.25	0.156	0.167
E2	1.80	2.00	0.071	0.079
e	1.40	1.60	0.055	0.063
e1	2.80	3.20	0.110	0.126
L	0.90	1.20	0.035	0.047

The recommended mounting pad size



UNIT:MM

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