# Power Transistor (-50V, -3A) 2SA1797

#### Features

1) Low saturation voltage. VCE (sat) = -0.35V (Max.) at Ic / IB = -1A / -50mA.

2) Excellent DC current gain characteristics.

4) Complements the 2SA1797 and 2SC4672.

### •Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-50	V	
Collector-emitter voltage		Vceo	-50	V	
Emitter-base voltage		Vево	-6	V	
Collector current		lc	-3	A (DC)	
		IC	-6	A (Pulse) *1	
Collector power dissipation	2SA1797	Pc	0.5	10/	
		PC	2	W *2	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55~+150	°C	

\*1 Single pulse, Pw=10ms

\*2 When mounted on a 40×40×0.7mm ceramic board.

#### Packaging specifications and hre

Туре	2SA1797
Package	MPT3
hfe	PQ
Marking	AG *
Code	T100
Basic ordering unit (pieces)	1000
*Donotoo has	

\*Denotes hre

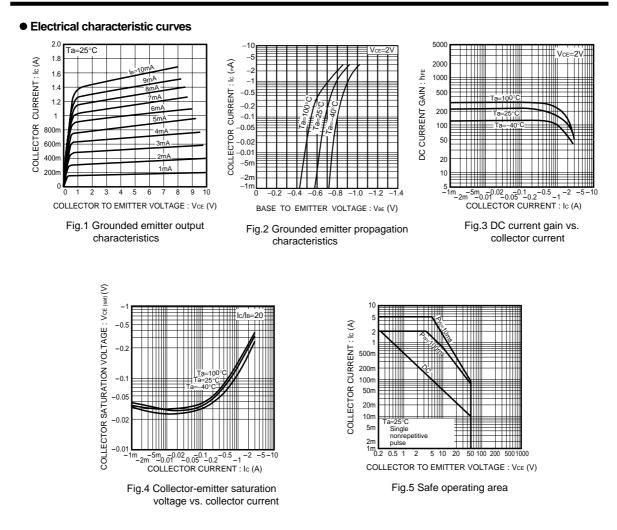
#### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	-50	-	-	V	Ic=–50μA	
Collector-emitter breakdown voltage	BVCEO	-50	-	-	V	Ic=-1mA	
Emitter-base breakdown voltage	ВVево	-6	-	-	V	Ιε=-50μΑ	
Collector cutoff current	Ісво	-	-	-0.1	μΑ	V <sub>CB</sub> =-50V	
Emitter cutoff current	Іево	-	-	-0.1	μΑ	VEB=-5V	
Collector-emitter saturation voltage	VCE(sat)	_	-0.15	-0.35	V	Ic/I <sub>B</sub> =-1A/-50mA	*
DC current transfer ratio	hfe	82	-	270	-	Vce/Ic=-2V/-0.5A	
Transition frequency	fт	-	200	-	MHz	Vce=-2V, Ie=0.5A, f=100MHz	*
Output capacitance	Cob	_	36	-	pF	Vcb=-10V, IE=0A, f=1MHz	

\* Measured using pulse current

rohm

# Transistors



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