# 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		Vebo	-6	V			
Collector current		lc	-3	A (DC)			
		IC	-6	A (Pulse) *1	2		
Collector power	2SA1797	D-	0.5	w	San An		
dissipation	2541797	Pc	2	VV *2	34		
Junction temperature		Tj	150	°C 🐠 🌮 🛛 🍊			
Storage temperature		Tstg	-55~+150	°C			
*1 Single pulse, Pw *2 When mounted c	on a 40×40×0.7mm						
Packaging space	pecifications a	Ind hee					
Туре	28	SA1797					
Packag	je	MPT3					
hfe		PQ					

## Packaging specifications and hre

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

\*Denotes hre

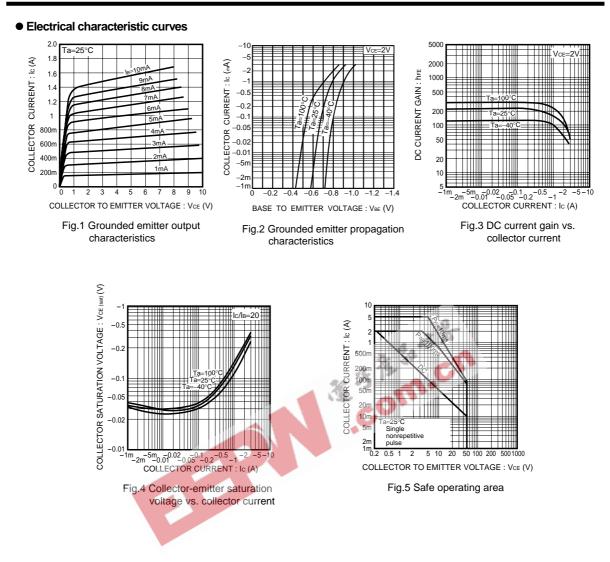
#### •Electrical characteristics (Ta=25°C)

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	Iε=-50μA	
Collector cutoff current	Ісво	-	-	-0.1	μΑ	Vcb=-50V	
Emitter cutoff current	Іево	-	-	-0.1	μΑ	VEB=-5V	
Collector-emitter saturation voltage	VCE(sat)	_	-0.15	-0.35	V	Ic/Iв=-1А/-50mА	*
DC current transfer ratio	hfe	82	-	270	_	Vce/Ic=-2V/-0.5A	
Transition frequency	f⊤	-	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



### Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

ROHM