# Power Transistor (-50V, -2A) 2SB1443

#### Features

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

2) Excellent DC current gain characteristics.

### ●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		
	lc	-2	A (DC)		
Collector current		-5	A (Pulse) *1		
Collector power dissipation	Pc	1	W *2		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55~+150	°C		

\*1 Single pulse, Pw=10ms

\*2 Printed circuit board 1.7mm thick, collector plating 1cm<sup>2</sup> or larger.

### Packaging specifications and hre

Туре	2SB1443
Package	ATV
hfe	Q
Marking	_
Code	TV2
Basic ordering unit (pieces)	2500
Develope h	

\*Denotes hre

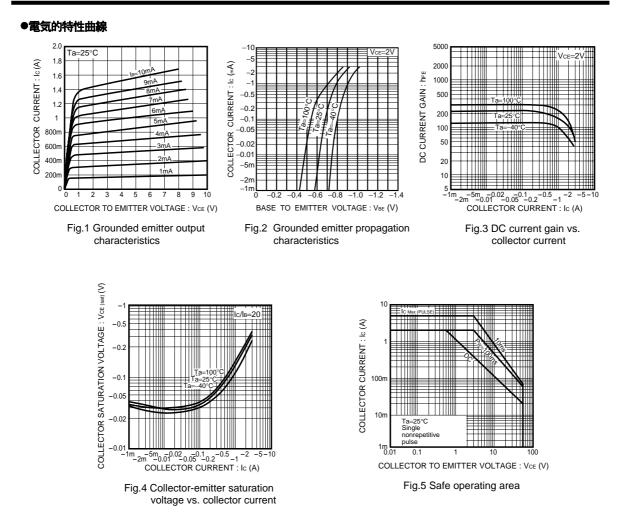
#### Electrical characteristics (Ta=25°C)

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	Vcb=-50V	
Emitter cutoff current	Іево	-	-	-0.1	μΑ	VEB=-5V	
Collector-emitter saturation voltage	VCE(sat)	-	-0.15	-0.35	V	Ic/Iв=-1A/-50mA	*
DC current transfer ratio	hfe	120	-	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



# Transistors



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