Power Transistor (-120V, -1.5A) 2SB1236

Features

- 1) High breakdown voltage. (BV $_{CEO} = -120V$)
- 2) Low collector output capacitance.

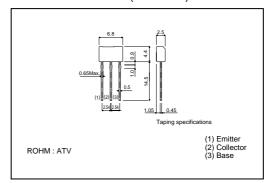
(Typ. 30pF at $V_{CB} = -10V$)

- 3) High transition frequency. ($f_T = 50MHz$)
- 4) Complements the 2SD1857.

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	-120	V	
Collector-emitter voltage	Vceo	-120	V	
Emitter-base voltage	VEBO	-5	V	
Collector current	lo.	-1.5	A (DC)	
Collector current	rrent lc	-3	A (Pulse) *1	
Collector power dissipation	Pc	1	W *2	
Junction temperature	Tj	150	°C	
Storage temperature	Tsta	-55~+150	°C	

●External dimensions (Units : mm)



●Packaging specifications and hFE

Туре	2SB1236
Package	ATV
hre	QR
Code	TV2
Basic ordering unit (pieces)	2500

●Electrical characteristics (Ta = 25°C)

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	-120	-	-	V	Ic = -50μA	
Collector-emitter breakdown voltage	BVceo	-120	-	-	V	Icv = -1mA	
Emitter-base breakdown voltage	ВVево	-5	-	-	V	Iε = -50μA	
Collector cutoff current	Ісво	_	_	-1	μА	Vcb = -100V	
Emitter cutoff current	ІЕВО	-	_	-1	μА	VEB = -4V	
Collector-emitter saturation voltage	VcE(sat)	-	-	-2	V	Ic/I _B = -1A/-0.1A	*
Base-emitter saturation voltage	V _{BE(sat)}	-	-	-1.5	V	Ic/I _B = -1A/-0.1A	*
DC current transfer ratio	hre	120	-	390	-	Vce = -5V , Ic = -0.1A	
Transition frequency	f⊤	-	50	-	MHz	Vce = -5V , IE = 0.1A , f = 30MHz	
Output capacitance	Cob	-	30	-	pF	Vcв = -10V , IE = 0A , f = 1MHz	

^{*}Measured using pulse current.

^{*1} Single pulse Pw = 100ms
*2 Printed circuit board 1.7mm thick, collector plating 1cm² or larger