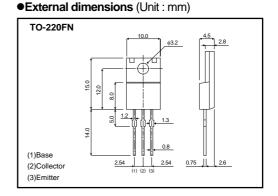
For Power Amplification (–60V, –3A) **2SB1565**

●Structure

PNP Silicon Epitaxial Planar Transistor

Features

- 1) Low VCE (sat).
- 2) Excellent electrical characteristics of DC current Gain hfe.
- 3) Wide SOA.



Applications

Low frequency power amplifier Stereophonic output Stabilization of power supply

Complements

PNP	NPN
2SB1565	2SD2394

● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	-60	V	
Collector-emitter voltage		Vceo	-60	V	
Emitter-base voltage		Vево	-7	V	
Collector current	DC	lc	-3	А	
	Pulse	Icp -6		A *1	
Collector power dissipation		Pc	2	W(Ta=25°C)	
		PC	25	W(Tc=25°C)	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	
±1 Dur 100ma non renetiti					

^{*1} Pw=100ms, non repetitive pulse

●Packaging specifications and hfe

		Package	Taping
Type		Code	-
	hfe	Basic ordering unit (pieces)	500
2SB1565	EF		0

hre values are classified as follows:

Item	E	F	
hfe	100 to 200	160 to 320	

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	_
Collector-emitter breakdown voltage	BVceo	-60	-	-	V	Ic=-1mA	
Collector-base breakdown voltage	ВУсво	-60	-	-	V	Ic=-50μA	
Emitter-base breakdown voltage	ВVево	-7	-	-	V	IE=-50μA	
Collector cutoff current	Ісво	_	-	-10	μА	Vcb=-60V	
Emitter cutoff current	ІЕВО	_	-	-10	μА	V _{EB} =-7V	
Collector-emitter saturation voltage	VcE(sat)	_	_	-1.5	V	Ic/I _B =-2A/-0.2A *1	1
DC current gain	hfe	100	-	320	-	Vce=-5V, Ic=-0.5A *1	1,2
Transition frequency	f⊤	_	15	_	MHz	Vce=-5V, Ie=0.5A, f=5MHz *1	1
Collector output capacitance	Cob	_	50	-	pF	Vcb=-10V, Ie=0A, f=1MHz	

^{*1} Single pulse *2 hre rank

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