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

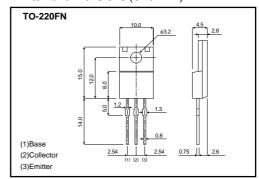
Low frequency power amplifier Stereophonic output Stabilization of power supply

● 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	Icp -6		
Collector newer dies	llector power dissipation		2	W(Ta=25°C)	
Collector power diss	sipation	Pc 25		W(Tc=25°C)	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	
±1 Dur 100ma non repetiti	vo puloo				

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

●External dimensions (Unit : mm)



Complements

PNP	NPN
2SB1565	2SD2394

●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
DC current gain	hfe	100	-	320	-	Vce=-5V, Ic=-0.5A *1,2
Transition frequency	f⊤	_	15	_	MHz	Vc=-5V, I=0.5A, f=5MHz *1
Collector output capacitance	Cob	_	50	-	pF	Vcb=-10V, Ie=0A, f=1MHz

^{*1} Single pulse *2 hre rank

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