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

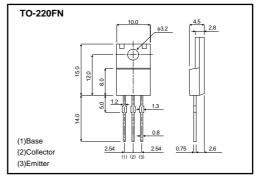
Structure

PNP Silicon Epitaxial Planar Transistor

Features

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

•External dimensions (Unit : mm)



NPN

2SD2394

Applications

Low frequency power amplifier Stereophonic output Stabilization of power supply

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Усво	-60	V	
Collector-emitter voltage		VCEO	-60	V	
Emitter-base voltage		VEBO	-7	V	
Collector current		Ic	-3	A	
	Pulse		-6	A *1	
Collector power dissipation		ICF	2	W(Ta=25°C)	
		Pc	25	$W(Ta=25^{\circ}C)$ $W(Tc=25^{\circ}C)$	
		T :		, ,	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

Packaging specifications and hre

Complements

PNP

2SB1565

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

hee values are classified as follows:

Item	E	F	
hfe	100 to 200	160 to 320	

*1 Pw=100ms, non repetitive pulse

•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	Iε=-50μA	
Collector cutoff current	Ісво	-	-	-10	μA	Vсв=-60V	
Emitter cutoff current	Іево	-	-	-10	μA	Veb=-7V	
Collector-emitter saturation voltage	VCE(sat)	-	-	-1.5	V	Ic/Iв=-2А/-0.2А	*1
DC current gain	hfe	100	-	320	-	Vce=-5V, Ic=-0.5A	*1,2
Transition frequency	f⊤	-	15	-	MHz	Vce=-5V, Ie=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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