2.8

¢3.2

For Audio Amplifier output - TV Velosity Modulation (-160V, -1.5A) 2SA2005

●Structure

PNP Silicon Epitaxial Planar Transistor

Features

1) Electrical characteristics of DC current gain hre is flat. 2) High breakdown voltage. (BVCEO= -160V(Min.), at Ic= -1mA) 3) High fr. (Typ. 150MHz, at Vce= -10V, Ie=0.2A, f=100MHz) 4) Wide SOA.

Applications

Power amplifier Velosity modulation

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit		
Collector-base voltage		Vсво	-160	V		
Collector-emitter voltage		Vceo	-160	V		
Emitter-base voltage		Vebo	-5	V		
Collector current	DC	lc	-1.5	A		
	Pulse	Іср	-3	A *1		
Collector power dissipation		Pc	2	W(Ta=25°C)		
		FC	20	W(Tc=25°C)		
Junction temperature		Tj	150	°C		
Storage temperature		Tstg	-55 to +150	°C		

	hfe	Basic ordering unit (pieces)	500
2SC5511	Е		C

hre values are classified as follows:

Item	E
hfe	100 to 200

*1 t=100ms

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	-160	-	-	V	Ic=-1mA
Collector-base breakdown voltage	ВУсво	-160	-	-	V	Ic= -50μA
Emitter-base breakdown voltage	ВVево	-5	-	-	V	Iε= -50μA
Collector cutoff current	Ісво	-	-	-1.0	μA	Vcb= -160V
Emitter cutoff current	Іево	-	-	-1.0	μA	V _{EB} = -4V
Collector-emitter saturation voltage	VCE(sat)	-	-	-1.0	V	Ic/IB= -1A/ -0.1A
Base-emitter saturation voltage	VBE(sat)	-	-	-1.5	V	Ic/IB= -1A/ -0.1A
DC current gain	hfe	100	-	200	-	Vce= -5V, Ic= -0.1A
Transition frequency	fт	-	150	-	MHz	Vce= -10V, Ie=0.2A , f=100MHz
Collector output capacitance	Cob	-	35	-	pF	Vcb= -10V , IE=0A , f=1MHz



40 (1)Base

•External dimensions (Unit : mm)

2.54 0.75 11 2.6 (2)Collector (3)Emitter

Complements

TO-220FN

PNP	NPN
2SA2005	2SC5511

Packaging specifications and hree

		Package	Taping		
Туре		Code	-		
	hfe	Basic ordering unit (pieces)	500		
2SC5511	Е		0		

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