For Audio Amplifier output - TV Velosity

2SC5511

Structure

NPN Silicon Epitaxial Planar Transistor

Features

1) Electrical characteristics of DC current gain hFE is flat. 2) High breakdown voltage. (BVcE0=160V(Min.), at lc=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	Э	Vebo	5	V	
Collector current	DC	lc	1.5	A	
	Pulse	Іср	3	A *1	
Collector power dissipation		Pc	2	W(Ta=25°C)	
		PC	20	W(Tc=25°C)	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

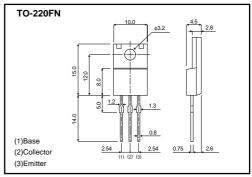
*1 t=100ms

•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	ВУево	5	-	-	V	Ιε=50μΑ
Collector cutoff current	Ісво	-	-	1.0	μΑ	Vcb=160V
Emitter cutoff current	Іево	-	-	1.0	μΑ	VEB=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	f⊤	-	150	-	MHz	Vce=10V, Ie=-0.2A , f=100MHz
Collector output capacitance	Cob	-	20	-	pF	Vcb=10V , IE=0A , f=1MHz



•External dimensions (Unit : mm)



Complements

PNP	NPN
2SA2005	2SC5511

Packaging specifications and hFE

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

hee values are classified as follows:

Item	E
hfe	100 to 200

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Appendix1-Rev1.1