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

2SC5511

●Structure

NPN Silicon Epitaxial Planar Transistor

● Features

- 1) Electrical characteristics of DC current gain heeis flat.
- 2) High breakdown voltage. (BVcEo=160V(Min.), at Ic=1mA)
- 3) High ft. (Typ. 150MHz, at VcE=10V, IE= -0.2A, f=100MHz)
- 4) Wide SOA.

Applications

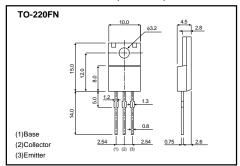
Power amplifier Velosity modulation

● 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		Vево	5	V	
0-11	DC	Ic	1.5	Α	
Collector current	Pulse	Іср	3	A *1	
Collector nover dies	ination	D-	2	W(Ta=25°C)	
Collector power diss	sipation	Pc 20		W(Tc=25°C)	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	
Storage temperature		Tstg	-55 to +150	°C	

^{*1} t=100ms

●External dimensions (Unit : mm)



●Complements

PNP	NPN		
2SA2005	2SC5511		

●Packaging specifications and hFE

		Package	Taping
Type		Code	_
	hfe	Basic ordering unit (pieces)	500
2SC5511	Е		0

hre values are classified as follows:

Item	E
hfe	100 to 200

●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	I _E =50μA
Collector cutoff current	Ісво	-	_	1.0	μΑ	VcB=160V
Emitter cutoff current	ІЕВО	-	-	1.0	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	VcE(sat)	-	_	1.0	V	Ic/I _B =1A/0.1A
Base-emitter saturation voltage	V _{BE} (sat)	-	_	1.5	٧	Ic/I _B =1A/0.1A
DC current gain	hfe	100	-	200	-	VcE=5V, Ic=0.1A
Transition frequency	f⊤	_	150	_	MHz	Vc=10V, I=-0.2A , f=100MHz
Collector output capacitance	Cob	-	20	-	pF	Vcb=10V , Ie=0A , f=1MHz

Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
 product described in this document are for reference only. Upon actual use, therefore, please request
 that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard
 use and operation. Please pay careful attention to the peripheral conditions when designing circuits
 and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
 otherwise dispose of the same, no express or implied right or license to practice or commercially
 exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

ROHM

Appendix1-Rev1.1