High-voltage Switching (Audio output amplifier transistor, Stabilized power supply transistor) 2SA1964

●Features

- 1) Flat DC current gain characteristics.
- 2) High breakdown voltage. (BV $_{\text{CEO}}$ =-160V)
- 3) High fr. (Typ.150MHz)
- 4) Wide SOA (safe operating area).
- 5) Complements the 2SC5248.

●Packaging specifications and hre

Туре	2SA1964
Package	TO-220FP
hre	DE
Code	
Basic ordering unit (pieces)	500

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit		
Collector-base voltage	Vcво	-160	V		
Collector-emitter voltage	Voeo	-160	V .		
Emitter-base voltage	VEBO	-5			
Collector current	Ic	-1.5	Α		
Collector power dissipation	Pc	2	W		
	PG	20	W(Tc=25°C)		
Junction temperature	Tj	150	c		
Storage temperature	Tstg	− 55~150	'C		

●Electrical characteristics (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	160		_	Ÿ	lc=-1mA
Collector-base breakdown voltage	ВУсво	-160			V	lc=−50 µA
Emitter-base breakdown voltage	BVEBO	-5			.V	I _E =-50 μA
Collector cutoff current	Ісво	_		1	μA	Von=160V
Emitter cutoff current	1EBO			-1	μΑ	VEB=-4V
Collector-emitter saturation voltage	VCE(sai)			-1	V	Ic/Ig=-1A/-0.1A
DC current transfer ratio	hre	60		200		Vc∈=-5V. lc=-0.1A
Transition frequency	fr		150		MHz	Voe=-10V , Is=-0.2A , f=100MHz
Output capacitance	Cob		35	_	pF	Vcs=-10V , Iz=0A , f=1MHz

(SPEC-A315)

High-voltage Switching (Audio output amplifier transistor, Stabilized power supply transistor)

2SC5248

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●Packaging specifications and hre

Туре	2SC5248
Package	TO-220FP
hre	DE
Code	
Basic ordering unit (pleces)	500

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Voso	160	V
Collector-emitter voltage	VCEO	160	v
Emitter-base voltage	Veno	5	V
Collector current	lo	1.5	A
Collector power dissipation	-	2	W
	Pc	W(Tc=25℃)	
Junction temperature	Tj	150	'C
Storage temperature	Tstg	-55~150	, C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Mex.	Unit	Conditions
Collector-emitter breakdown voltage	BVcec	160	_		V	Ic=1mA
Collector-base breakdown voltage	BVceo	160			V	Ic=50 µA
Emitter-base breakdown voltage	OVEBO	5	_		V	IE=50 μ A
Collector cutoff current	Ісво	_		1	μА	Vcs=160V
Emitter cutoff current	leeo	_		1	μА	Ven=4V
Collector-emitter saturation voltage	VCE(est)	_		1	Ý	Ic/Ip=1A/0.1A
DC current transfer ratio	hrc	60		200	 	Vc==5V . Ic=0.1A
Transition frequency	Íτ	1 —	150	T —	MHz	Vce=10V i==0.2A , f=100MHz
Output capacitance	Cob		20	-	рF	Vce=10V Je=0A (=1MHz

(SPEC-C315)

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