2SC3553

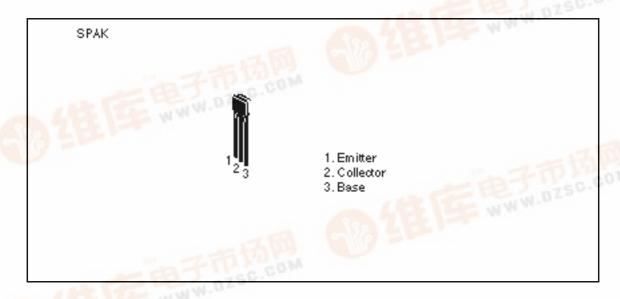
Silicon NPN Epitaxial

HITACHI

Application

WWW.DZSC Low frequency amplifier

Outline





2SC3553

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	35	V	
Collector to emitter voltage	V_{CEO}	35	V	
Emitter to base voltage	V_{EBO}	4	V	
Collector current	I _c	500	mA	
Collector power dissipation	P _c	300	mW	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	35	_	_	V	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	35	_	_	V	$I_C = 1 \text{ mA}, R_{BE} =$
Emitter to base breakdown voltage	$V_{\text{(BR)EBO}}$	4	_	_	V	$I_E = 10 \ \mu A, \ I_C = 0$
Collector cutoff current	I _{CBO}	_	_	0.5	μΑ	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE1} *1	60	_	320		$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$
	h _{FE2}	10	_	_		$V_{CE} = 3 \text{ V}, I_{C} = 500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{\text{CE}(\text{sat})}$	_	0.2	0.6	V	$I_{\rm C} = 150 \text{ mA}, I_{\rm B} = 15 \text{ mA}^{*2}$
Base to emitter voltage	V_{BE}	_	0.64	_	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$

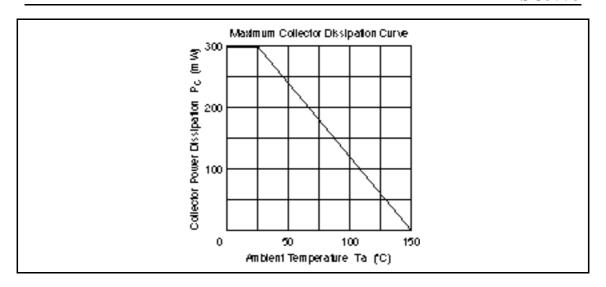
Notes: 1. The 2SC3553 is grouped by h_{FE1} as follows.

2. Pulse test

В	С	D
60 to 120	100 to 200	160 to 320

See characteristic curves of 2SC1213.

2SC3553



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HITACHI

Hitachi, Ltd.
Semiconductor & IC Div.
Neppon Bidg., 2-6-2, Ohte-medii, Chiyode-ku, Tokyo 100, Japan Tet Tokyo (03, 3270-2111
Fex. (03, 3270-5109)

For further in formellon write to: Histori America, Utd. Semiconductor & IC Dv. 2000 Sierra Point Perlavay Brabbara, CA. 94005-1835 USA Tet 445-589-8300 Fax: 445-583-4207

Bedronic Components Group Cartinertal Burope Danacher Streife 3 D-85622 Feldkirchen München Tet 089-9 94 80-0 Fex: 089-9 29 30 00

Hitechi Burope GmbH

Hitschi Burope Ltd.
Bedronic Components Div.
Northern Burope Headquarters
Whilebrook Perk
Lower Cook hem Road
Maidenhead
Berkshire SL68YA
Urited Kingdom
Tet 0628-585000
Fex 0628-778322

Hitschi Asia Pta, Ltd 45 Collyer Quay \$20-00 Hitschi Tower Snappore 0404 Tet 535-2400 Fex: 535-4533

Hitschi Asia (Hong Kond) Ltd. Unit 706, North Tower, World Finance Centre, Herbour City, Centon Road Taim She Teuk Kowloon Hong Kong Tet 27359248 Fex: 27306074